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Census of Mineral Industries

MIC82-A-8

GEOGRAPHIC AREA SERIES

Mountain States

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The publications
from the 1982 Economic and
Agriculture Censuses are dedicated
to the memory of Shirley Kallek,
Associate Director for Economic Fields.
During her career at the Bureau of the
Census (1955 to 1983), she continually
directed efforts to improve
the timeliness and accuracy of
economic statistics.

1982

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Issued April 1985



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Clarence J. Brown, Deputy Secretary
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ACKNOWLEDGMENTS—Many persons participated in the various activities of the 1982 Census of Mineral Industries. Primary direction of the program was performed by Shirley Kallek, Associate Director for Economic Fields (until May 1983), Charles A. Waite, her successor, and Michael G. Farrell, Assistant Director for Economic and Agriculture Censuses (until August 1984), and John H. Berry, his successor.

This report was prepared in the Industry Division under the general direction of Roger H. Bugenhagen, Chief (until April 1983), and Gaylord E. Worden, his successor. Jacob Silver, Assistant Chief for Mineral Industries and Special Reports, was responsible for the overall management of the census of mineral industries. He guided the planning and implementation of the project and coordinated activities with other divisions.

Program responsibility was shared by the following individuals who participated importantly in the entire program: John P. McNamee, Chief, Minerals Branch; Dale W. Gordon, Chief, Census/ASM Durables Branch; Michael J. Zampogna, Chief, Census/ASM Nondurables Branch; Bernard J. Fitzpatrick, Chief, Census Special Reports Branch (until April 1983), Bruce M. Goldhirsch, his successor; and Kenneth I. Hansen, Chief, Annual Survey of Manufactures Branch.

Victor M. Susman, assisted by Eva Snapp, was directly responsible for the analysis of the data and preparation of this report.

Dr. Edward A. Robinson, Senior Industry Statistician, made significant contributions to the basic economic concepts and content of the census. The computer processing systems were developed and coordinated under the direction of William E. Norfolk, Assistant Chief for Operations. Sarah A. Mathis, Chief, Census Programming Branch, was responsible for implementation of the computer systems, and the computer programs were prepared under the supervision of David Onions and Gerald S. Turnage, assisted by Barbara A. Lambert and Willie T. Robertson. The mathematical techniques and quality control requirements were developed by Preston J. Waite, Assistant Chief for Research and Methodology, assisted by Stacey Cole, Pamela McKee, Amelia M. Perego, Magdalene Ramos, and Anne M. Stephens.

Industry classification was controlled by Bruce M. Goldhirsch; coordination activities with Data Preparation Division were carried out by Eric Taylor; and the various phases of the publication process were coordinated by Lillie Mae Skinner. Other persons made important contributions in such areas as developing specifications, procedures, and resolving problems. They include Richard J. Sterner, Robert A. Rosati, Richard Sweeney, Cyr F. Linonis, Leonard Pomeroy, Patricia L. Horning, and Dennis L. Wagner.

Systems and procedures for mailout, receipt, correspondence, data input, industry classification, other clerical processing, administrative

record processing, and quality control, along with the associated electronic computer programs, were developed in the Economic Surveys Division, W. Joel Richardson, Chief.

Planning, design, review, and composition of report forms were performed in the Administrative Services Division, Robert L. Kirkland, Chief.

Publication planning, design, editorial review, composition, and printing procurement were performed in the Publications Services Division, Raymond J. Koski, Chief.

Geographic coding procedures and associated computer programs were developed in the Geography Division, Robert W. Marx, Chief.

Mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review were performed in the Data Preparation Division, Don L. Adams, Chief.

Computer processing was performed in the Computer Services Division, C. Thomas DiNenna, Chief (until February 1984), and John E. Halterman, his successor.

Photocomposition programs for the statistical tables were developed in the Systems Support Division, Larry J. Patin, Chief (until October 1983), and Arnold E. Levin, his successor.

Special-purpose computer programs for disclosure analysis were developed in the Business Division, Gerald F. Cranford, Chief (until December 1983), and Howard N. Hamilton, his successor.

The overall planning and review of the census operations were performed by the staff of the office of the Assistant Director for Economic and Agriculture Censuses.

Special acknowledgment is also due the many businesses whose cooperation has contributed to the publication of these data.

Library of Congress Cataloging in Publication Data

Census of mineral industries (1982)
1982 census of mineral industries.

Contents: [1] Subject series — [2] Industry series — [3] Geographic area series.

Supt. of Docs. no.: C 3.216: MIC82-A-

1. Mineral industries--United States--Statistics.

I. United States. Bureau of the Census. II. Title.

HD9506.U62C45

1984

338.2'0973

83-600142

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

Mountain States

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ECONOMIC CENSUSES OVER TIME

The early beginnings of America's industrial output were first measured in the United States in the 1810 Decennial Census and again in 1820, when questions on manufacturing were included with those for population. Beginning with the 1840 Decennial Census, there were enumerations of manufactures and mineral industries at 10-year intervals up to and including the year 1900 for manufactures and 1940 for mineral industries. The latter census was taken again for 1954, 1958, 1963, and 1967.

Because of the increasing dominance of manufacturing in the early 20th century, Congress directed that quinquennial censuses of manufactures be taken beginning in 1905. However, from 1919 through 1939, these censuses were conducted every 2 years. The need for war-related current surveys in the early 1940's postponed the next census of manufactures until 1948 (for 1947). That census was again taken for 1954, 1958, 1963, and 1967.

Retail and wholesale trade data were first collected in 1930, and in 1933 information on selected service industries was added to the data-collection operation. These business censuses, as they were called, were again taken for 1935, 1939 (as part of the 1940 decennial program), 1948, 1954, 1958, 1963, and 1967.

Information on construction industries was first obtained in 1930 and again for 1935 and 1939. Data for the full spectrum of construction industries were not gathered again until 1968 (for 1967).

The need for transportation data to supplement information available from existing governmental or private sources was recognized by Congress in the late 1950's and early 1960's. The census of transportation (consisting of several surveys) was first taken for 1963 and again for 1967.

Since 1967, all of the above censuses have been taken quinquennially as part of the Census Bureau's economic census program. (For the 1977 censuses, the coverage of the service

industries was broadened from "selected services" to all services, except religious organizations and private households. A total of 41 additional four-digit standard industrial classifications¹ (SIC's) in 7 SIC major groups was added to the scope of the census. While most of the industries included for the first time for 1977 were covered again for 1982, some were not, i.e., hospitals; elementary and secondary schools; colleges, universities, and professional schools; junior colleges and technical institutes; labor unions; and political organizations.)

The first manufacturing census for an outlying area was conducted in Puerto Rico for the year 1909. Thereafter, with the exception of 1929, a census was taken at 10-year intervals through 1949. The first censuses of retail trade, wholesale trade, and selected service industries in Puerto Rico were conducted for 1939. These censuses also were taken for the years 1949, 1954, 1958, 1963, and 1967. A census of construction industries was first introduced in Puerto Rico for 1967. These censuses of Puerto Rico have been taken since then for the years 1972, 1977, and 1982.

Censuses of manufactures, retail trade, wholesale trade, and selected service industries were conducted in Guam and the Virgin Islands of the United States for 1958, 1963, 1967, 1972, 1977, and 1982. Censuses of mineral industries were taken in the Virgin Islands of the United States for the years 1958, 1963, and 1967 but not since that time. A census of construction industries was also undertaken in these areas for 1972, 1977, and 1982.

Retail trade, wholesale trade, selected service industries, manufacturing, and construction industries were canvassed for the first time in the Northern Mariana Islands in 1983 (for 1982).

For 1982, the economic censuses and the agriculture census were conducted concurrently.

USES OF THE ECONOMIC CENSUSES

The economic censuses are the major source for facts about the structure and functioning of the Nation's economy and provide essential information for government, business, industry, and the general public. They provide an important part of the framework for such composite measures as the gross national product, input-output measures, indexes of industrial production, and indexes measuring productivity and price levels. Information from the censuses is used to establish sampling frames and as benchmarks for current surveys of business activity, which are essential for measuring short-term economic conditions.

¹Standard Industrial Classification Manual: 1972. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 041-001-00066-6. 1977 Supplement. Stock No. 003-005-00176-0.

State and local governments use census data to assess business activities within their jurisdictions. The private sector uses the data to forecast general economic conditions; analyze sales performance; lay out sales territories; allocate funds for advertising; decide on locations for new plants, warehouses, or stores; and measure potential markets in terms of size, geographic areas, kinds of business, and kinds of products made or sold.

Following every census, thousands of businesses and other users purchase reports. Likewise, census facts are widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. All 1982 data are available on microfiche from the U.S. Government Printing Office and most data on computer tape from the Census Bureau. Finally, the more than 50 State Data Centers also are suppliers of economic census statistics.

AUTHORITY AND SCOPE OF THE ECONOMIC CENSUSES

The economic censuses are required by law under title 13 of the United States Code, sections 131, 191, and 224, which directs that they be taken at 5-year intervals for the years ending in 2 and 7. The 1982 Economic Censuses covered manufacturing, mining, construction industries, retail trade, wholesale trade, service industries, and selected transportation activities. Special programs also cover minority-owned and women-owned businesses. The next economic censuses are scheduled to be taken in 1988 for the year 1987.

CENSUS OF MINERAL INDUSTRIES

General

The 1982 Census of Mineral Industries is the 19th census of mining establishments in the United States. For 1982, it was conducted jointly with the censuses of manufactures, construction industries, retail and wholesale trades, service industries, selected transportation activities, and minority-owned and women-owned businesses.

This report, from the 1982 Census of Mineral Industries, is one of a series of 9 geographic division reports, each of which provides statistics for individual states within a defined geographic area. Additional separate reports are issued for individual industries or groups of related industries and on special subjects, such as size of establishments, type of organization, assets, capital expenditures, type of operation, and fuels and electric energy consumed.

These separate reports subsequently will be issued as portions of the final census volume. The volume—Subject, Industry, and Area Statistics—will show comparative figures for industries and States on the more important measures of the activity of mining establishments, such as employment, payrolls, value of shipments and receipts, capital expenditures, value added by mining, selected supplies consumed, and energy used. It will include, besides the industry statistics, geographic area statistics (number of establishments, employment, payrolls, value added, cost of supplies, value of shipments and receipts, and capital expenditures) for each State and county, by industry group and

statistics on selected subjects. The introduction to the final volume of the census of mineral industries will discuss; at greater length, many of the subjects described in this introduction. For example, the volume text will discuss the economic significance of the mining sector, the relation of value added by mining to value added by manufacture, some of the changes in statistical concepts over the history of the census, and the valuation problems arising from intracompany transfers between mining establishments, manufacturing plants, and sales offices and sales branches of a company.

Scope of Census and Definition of Mineral Industries

The 1982 Census of Mineral Industries covers all establishments with one paid employee or more primarily engaged in mining as defined in the 1972 Standard Industrial Classification (SIC) Manual.¹ This is the system of industrial classification developed over a period of years by experts on classification in government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This system of classification is in general use among government agencies as well as organizations outside the government.

The SIC manual defines mining in the broad sense to include the extraction of minerals occurring naturally: Solids such as coal and ores, liquids such as crude petroleum, and gases such as natural gas. The term "mining" is used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.) and other preparation needed to make minerals marketable. Exploration is included as is the development of mineral properties. Services performed on a contract, fee, or other basis in the exploration and development of mineral properties are classified separately but within this division.

Mining operations are classified by industry on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in progress. The recovery of material from culm banks, ore dumps, and other waste minerals piles is classified in the appropriate mining industry according to the mineral product recovered.

The crushing, grinding, or other treatment of certain earths, rocks, and other nonmetallic minerals not in conjunction with mining activities are not included in this division but are classified as manufacturing. Hauling and other transportation beyond the mine property and contract hauling (except out of open pits in conjunction with mining) also are excluded.

Mining operations carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants or sand and gravel operations at ready-mixed concrete plants) are not within the scope of this census. However, selected data (production workers' wages and hours; total cost of supplies, fuels, electric energy, and contract work; and quantity of production for mined products) on such mining activities have been obtained in the 1982 Census of Manufactures and are included in the mining reports. They are clearly specified wherever included.

¹Standard Industrial Classification Manual: 1972. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 041-001-00066-6. 1977 Supplement. Stock No. 003-005-00176-0.

Establishment Basis of Reporting

The census of mineral industries covers each mining establishment of firms with one paid employee or more operating in the United States. A firm operating more than one establishment is required to file a separate report for each location. A mineral establishment is defined as a single physical location where mineral operations are conducted.

For oil and gas field operations and for contract services, the basis for reporting is different from the "establishment" basis used for other types of mining. Firms operating oil and gas wells, drilling wells, or exploring for oil and gas for their own account were required to submit a separate report for each State or offshore area adjacent to a State in which it conducted such activities and to include employment, production, and capital expenditures data at the county level. Firms that performed contract services for oil and gas field operations or for mining establishments were required to submit one report covering all such activities in the United States and to include information on receipts for services by State and county. These consolidated reports were then allocated to county establishments based on the data reported at the county level. The 1982 figures for establishments include the summation of operations within each county allocated from these State or nationwide reports and, therefore, are not comparable to prior censuses.

Establishments, as presented in this report, are those in operation "during the year." In the General Summary report (MIC82-S-1), a comparison will be made at the U.S. level of the number of establishments in operation "during the year" and at the "end of the year."

Use of Administrative Records

From a mailout universe of about 36,000 mining establishments, approximately 11,000 small single-establishment companies were not mailed a questionnaire. For these establishments, some employment, payroll, and receipts data were obtained from the administrative records of other agencies. Selection of the small establishment nonmail cases was done on an industry-by-industry basis, and a variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. This information was then used in conjunction with industry averages and other information to estimate the statistics for administrative-record and nonresponse establishments. The first column in tables 2a and 5 provides an indication of the extent that these establishments account for the figures shown. The value of shipments and receipts and cost of supplies were generally not distributed among specific products and supplies for these establishments, but were included in the product and supply "not specified by kind" categories. Overall, establishments for which administrative-record data were used accounted for less than 2 percent of total value of shipments and receipts.

The industry classification codes included in the administrative-record files were used for those establishments excused from filing census forms. Generally, these codes were assigned on the basis of brief descriptions of the general activity of the establishment. Where the description is incomplete, or where there are relatively fine lines of demarcation among industries or between mining and nonmining activities, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product or activity information. Therefore, the total establishment count should be

viewed as an approximate measure. The counts for establishments with 20 employees or more are far more reliable.

In the 1982 census, as in the 1977, 1972, and 1967 censuses, data for single-unit firms without paid employees were excluded. This exclusion had only a slight effect on industry aggregates for most industries. Data for firms without employees were included in the 1963, 1958, and 1954 censuses if they reported more than \$500 in (1) value of shipments and receipts, (2) cost of supplies and purchased machinery, or (3) capital expenditures.

Auxiliaries

Statistics for employment and payroll for individual industries and industry groups also include employment and payroll figures for administrative offices, warehouses, storage facilities, and other auxiliary establishments servicing mining establishments. As in previous censuses, respondents were asked to file separate reports (Form ES-9200) for any separately operated auxiliary establishments. Classification of employment and payroll data at such auxiliary establishments was based on the mining establishments served.

Industry Classification of Establishments

Each of the establishments covered by the census was classified in one of 42 mineral industries in accordance with the industry definitions in the SIC system. Under this system of classification, an industry is generally defined as a group of establishments producing the same main product or closely related group of products. The resulting group of establishments must be significant in terms of its number, value added by mining, value of shipments and receipts, and number of employees. Application of these criteria led to formulation of 42 mining industries, to each of which a four-digit code number was assigned. The classification system also provides broader groups of industries, with twenty three-digit groups and five two-digit groups. Within industries, the system provides for seven-digit products and five-digit product classes. Products are considered primary to an industry if the first four digits of the product codes are the same as the industry code. Products whose first four code numbers differ from the industry code are called secondary products. To determine the industry classification of an establishment, the seven-digit products are grouped together according to the first four digits of the product code. The first four digits of the group of products with the largest value of production become the industry code for the establishment. (For mineral service industries, the classification is on the basis of receipts for services performed.)

In most industries, establishments making products falling into the same industry category use a variety of processes. Separate statistics are provided on the various types of operation. Whenever possible, separate figures are shown for establishments with mines only, mines with preparation plants, and preparation plants only. Separate figures are provided by type of mine (underground, open pit, and combination). Separate statistics also are provided on producing and nonproducing operations, an establishment being defined as nonproducing if no mineral products were shipped during the year.

Statistics also are usually provided on the production of minerals mined and used in the same establishment for producing prepared minerals or used at the producing establishment for fuel.

Differences in the integration of production processes and types of operation should be considered when relating the general items (employment, payrolls, value added, etc.) to the product and material data.

CENSUS DISCLOSURE RULES

The Bureau of the Census is prohibited by Federal law from publishing any statistics that disclose information reported by individual companies. However, the number of companies classified in a specific industry is not considered a disclosure, so this item may be given even though other information is withheld.

The disclosure analysis for the State statistics in the tables of this report is based on the total value of shipments and receipts and capital expenditures. Whenever the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line has been suppressed. If capital expenditures alone is a disclosure, only total capital expenditures and cost of supplies statistics are suppressed. However, the suppressed data are included in higher level totals.

MICROFICHE

All data in the final reports and volume are available on microfiche. Microfiche reports are sold by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

SPECIAL TABULATIONS

Public-use tapes are not available for 1982 Census of Mineral Industries data. However, special tabulations of data collected may be obtained on computer tape or in tabular form. The data

will be in summary form and subject to the same rules prohibiting disclosure of confidential information (such as name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications. Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Industry Division, Bureau of the Census, Washington, D.C. 20233.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

—	Represents zero.
(D)	Withheld to avoid disclosing data for individual companies.
(NA)	Not available.
(S)	Withheld because estimate did not meet publication standards on the basis of either the response rate or a consistency review.
(X)	Not applicable.
(Z)	Less than half the unit shown.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, and bbl, are used in the customary sense. Where the term "tons" only is used, it refers to short tons of 2,000 pounds; where the figures are expressed in tons of 2,240 pounds, the unit of measure is specified as "long tons" or "l. tons."

Users' Guide for Locating Statistics in This Report by Table Number

[For explanation of terms, see appendix]

Item	State historical	State by industry	State by industry group and type of operation	State summary	State by county and industry group	State by county and establishment size
Establishments:						
Total number	1	2a,2b	3	4a	5	6
Employment size				4a		6
Employment and payroll:						
Number of employees	1	2a	3	4a	5	
Payroll	1	2a		4a	5	
Production, development, and exploration—						
Workers	1	2a		4a	5	
Hours	1	2a,2b		4a	5	
Wages	1	2a,2b		4a	5	
Supplemental labor costs				4a		
Value added, cost of supplies, shipments, and inventories:						
Value added by mining	1	2a	3	4a	5	
Cost of supplies	1	2a,2b		4a	5	
Resales, cost and value				4a		
Purchased fuels consumed				4a		
Purchased electricity				4a		
Cost of contract work				4a		
Value of shipments and receipts	1	2a		4a	5	
Inventories				4b		
New and used capital expenditures, excluding land and rights:						
Total	1	2a		4a	5	
Buildings and structures				4a		
Machinery and equipment				4a		
Mineral exploration and development				4a		
Rental payments				4a		
Expensed mineral exploration, development, land, and rights				4a		

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SUMMARY OF FINDINGS

The total value of shipments and receipts for the 291 establishments classified in mineral industries in Arizona amounted to \$1,353 million in 1982, compared to \$1,259 million in 1977. Value added by mining amounted to \$748 million in 1982, and payroll in mining amounted to \$427 million. All dollar figures shown are in current dollars for the years specified and have not been adjusted for changes in price levels. When making comparisons to prior years, users should take into consideration the inflation that has occurred.

Mineral industries employment in Arizona was 16.6 thousand in 1982, a decrease of 21 percent from 1977. It accounted for 1 percent of the Nation's total. Metal mining led all other mineral industries in the State, accounting for 85 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1982 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Kind of operation and year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
Mineral industries:											
1982 ¹	2291	254	16.6	426.5	12.7	23.4	326.4	748.4	771.3	1 352.5	167.2
1977 ¹	229	50	21.0	339.0	15.6	29.8	240.2	750.9	650.7	1 259.3	142.3
1972 ¹	181	48	21.1	226.7	16.5	34.2	168.5	625.4	392.7	851.1	166.9
1967 ¹	198	38	10.7	90.0	8.1	18.7	64.7	296.7	133.6	369.6	60.8
1963	260	39	15.2	107.4	12.8	28.7	88.8	287.4	141.2	385.9	42.6
1958	320	40	15.3	79.9	12.1	24.5	61.7	189.0	90.4	249.4	29.9
Excluding oil and gas extraction industries:											
1982 ¹	203	49	16.0	413.0	12.3	22.4	316.5	703.8	752.4	1 295.2	161.0
1977											
1972											
1967	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1963											
1958											

Note: For data prior to 1958, see 1963 Census of Mineral Industries, volume II.

¹Beginning with 1967, data for single-unit establishments without paid employees were excluded from the census.

²Not comparable to prior years. See Introduction for further explanation.

Table 2a. Mineral Establishment Statistics by Industry for the State: 1982 and 1977

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and industry	1982											1977	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
	All mineral industries	-	291	54	16.6	426.5	12.7	23.4	326.4	748.4	771.3	1 352.5	167.2	21.0
10	Metal mining	-	112	35	14.1	356.2	10.8	19.2	270.3	534.5	651.8	1 053.5	132.9	19.4
1021	Copper ores	-	36	28	13.4	342.8	10.4	18.5	262.8	513.4	639.0	1 024.7	127.7	18.6
104	Gold and silver ores	E2	25	4	.4	6.6	.2	.4	2.9	5.8	7.0	9.5	3.2	(NA)
1041	Gold ores	E2	18	2	.2	4.1	.1	.1	.8	3.2	2.8	3.0	2.9	(NA)
1044	Silver ores	E2	7	2	.2	2.5	.1	.2	2.1	2.6	4.2	6.5	.3	(NA)
1081	Metal mining services	E1	27	2	.2	4.7	.2	.3	3.4	9.1	(D)	12.2	(D)	BB
12	Bituminous coal and lignite mining	-	12	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC
121	Bituminous coal and lignite mining	-	12	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC
1211	Bituminous coal and lignite ..	-	11	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC
13	Oil and gas extraction	E3	88	5	.6	13.4	.4	1.0	9.9	44.6	18.9	57.3	6.2	AA
1311	Crude petroleum and natural gas	E5	32	1	.1	2.0	(Z)	.1	.7	20.9	6.7	26.7	.9	(D)
138	Oil and gas field services	E1	56	4	.5	11.5	.4	.9	9.2	23.7	12.2	30.6	5.2	.1
1381	Drilling oil and gas wells	E2	15	1	.2	6.7	.2	.5	5.5	9.7	9.8	16.1	3.4	(NA)
1382	Oil and gas field exploration services	E1	12	2	.2	2.2	.1	.2	1.8	6.7	1.1	7.3	.4	(NA)
1389	Oil and gas field services, n.e.c.	E1	29	1	.1	2.5	.1	.2	1.9	7.3	1.3	7.3	1.3	(NA)
14	Nonmetallic minerals, except fuels	E5	79	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6
144	Sand and gravel	E6	41	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3
1442	Construction sand and gravel	E6	37	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries and industry groups are withheld to avoid disclosing data for individual companies. However, for such industries and industry groups with 100 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1982

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s. tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures	19	.5	4.6	8.2	(X)
Crushed and broken stone, including riprap	4	(D)	(D)	(D)	(D)
Crushed and broken limestone	4	(D)	(D)	(D)	(D)
Sand and gravel	14	.4	2.9	6.5	4 056.1

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of estab- lish- ments	Producing establishments										Nonpro- ducing estab- lish- ments	
			Total	Mines only				Mines with preparation plants				Separa- tely operated prepara- tion plants		Undistrib- uted¹
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods			
	ALL MINERAL INDUSTRIES													
	Establishments.....number..	291	270	55	15	19	21	57	3	50	4	2	156	21
	Employees1,000..	16.6	16.3	.6	.2	.4	.1	13.5	(D)	8.8	(D)	(D)	(D)	.3
	Value added in mining mil. dol..	748.4	748.3	44.0	3.4	19.3	21.3	637.1	(D)	447.2	(D)	(D)	(D)	.1
10	METAL MINING													
	Establishments.....number..	112	99	19	8	11	-	20	3	16	1	1	59	13
	Employees1,000..	14.1	13.8	.5	(D)	(D)	-	12.2	(D)	7.5	(D)	(D)	(D)	.3
	Value added in mining mil. dol..	534.5	534.1	17.2	(D)	(D)	-	494.9	(D)	306.7	(D)	(D)	(D)	.5
101	Iron ores													
	Establishments.....number..	3	3	2	-	2	-	-	-	-	-	-	1	-
	Employees1,000..	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	(Z)	-
	Value added in mining mil. dol..	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
102	Copper ores													
	Establishments.....number..	36	32	9	-	9	-	17	3	13	1	1	5	4
	Employees1,000..	13.4	13.3	(D)	-	(D)	-	(D)	(D)	(D)	(D)	(D)	.6	.1
	Value added in mining mil. dol..	513.4	511.9	(D)	-	(D)	-	(D)	(D)	(D)	(D)	(D)	-	1.4
103	Lead and zinc ores													
	Establishments.....number..	4	2	2	2	-	-	-	-	-	-	-	-	2
	Employees1,000..	(D)	(D)	(D)	(D)	-	-	-	-	-	-	-	-	(Z)
	Value added in mining mil. dol..	(D)	(D)	(D)	(D)	-	-	-	-	-	-	-	-	(Z)
104	Gold and silver ores													
	Establishments.....number..	25	21	6	6	-	-	3	-	3	-	-	12	4
	Employees1,000..	.4	.3	.1	.1	-	-	(D)	-	(D)	-	-	(D)	.1
	Value added in mining mil. dol..	5.8	6.8	.7	.7	-	-	(D)	-	(D)	-	-	(D)	-1.0
106	Ferroalloy ores, except vanadium													
	Establishments.....number..	5	4	-	-	-	-	-	-	-	-	-	4	1
	Employees1,000..	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	(Z)
	Value added in mining mil. dol..	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
108	Metal mining services													
	Establishments.....number..	27	27	-	-	-	-	-	-	-	-	-	27	-
	Employees1,000..	.2	.2	-	-	-	-	-	-	-	-	-	.2	-
	Value added in mining mil. dol..	9.1	9.1	-	-	-	-	-	-	-	-	-	9.1	-

See footnotes at end of table.

Table 3. **Selected Statistics by Type of Operation and Industry Group for the State: 1982—**
Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of estab- lish- ments	Producing establishments											Nonpro- ducing estab- lish- ments
			Total	Mines only				Mines with preparation plants				Sepsa- rately operated prepara- tion plants	Undistrib- uted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods			
10	METAL MINING—Con.													
109	Miscellaneous metal ores													
	Establishments.....number...	12	10	-	-	-	-	-	-	-	-	-	10	2
	Employees.....1,000...	(Z)	(Z)	-	-	-	-	-	-	-	-	-	(Z)	(Z)
	Value added in mining.....mil. dol...	1.2	1.2	-	-	-	-	-	-	-	-	-	1.2	-
12	BITUMINOUS COAL AND LIGNITE MINING													
	Establishments.....number...	12	12	7	7	-	-	2	-	2	-	-	3	-
	Employees.....1,000...	(D)	(D)	(D)	(D)	-	-	(D)	-	(D)	-	-	(D)	-
	Value added in mining.....mil. dol...	(D)	(D)	(D)	(D)	-	-	(D)	-	(D)	-	-	(D)	-
121	Bituminous coal and lignite mining													
	Establishments.....number...	12	12	7	7	-	-	2	-	2	-	-	3	-
	Employees.....1,000...	(D)	(D)	(D)	(D)	-	-	(D)	-	(D)	-	-	(D)	-
	Value added in mining.....mil. dol...	(D)	(D)	(D)	(D)	-	-	(D)	-	(D)	-	-	(D)	-
13	OIL AND GAS EXTRACTION													
	Establishments.....number...	88	81	21	-	-	21	-	-	-	-	-	60	7
	Employees.....1,000...	.6	.6	.1	-	-	.1	-	-	-	-	-	.5	-
	Value added in mining.....mil. dol...	44.6	44.9	21.3	-	-	21.3	-	-	-	-	-	23.7	-4
131	Crude petroleum and natural gas													
	Establishments.....number...	32	25	21	-	-	21	-	-	-	-	-	4	7
	Employees.....1,000...	.1	.1	.1	-	-	.1	-	-	-	-	-	.1	-
	Value added in mining.....mil. dol...	20.9	21.3	21.3	-	-	21.3	-	-	-	-	-	-	-4
138	Oil and gas field services													
	Establishments.....number...	56	56	-	-	-	-	-	-	-	-	-	56	-
	Employees.....1,000...	.5	.5	-	-	-	-	-	-	-	-	-	.5	-
	Value added in mining.....mil. dol...	23.7	23.7	-	-	-	-	-	-	-	-	-	23.7	-
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments.....number...	79	78	8	-	8	-	35	-	32	3	1	34	1
	Employees.....1,000...	(D)	(D)	(D)	-	(D)	-	(D)	-	(D)	(D)	(Z)	(D)	(Z)
	Value added in mining.....mil. dol...	(D)	(D)	(D)	-	(D)	-	(D)	-	(D)	(D)	(Z)	(D)	(Z)
141	Dimension stone													
	Establishments.....number...	4	4	3	-	3	-	1	-	1	-	-	-	-
	Employees.....1,000...	(Z)	(Z)	(D)	-	(D)	-	(D)	-	(D)	-	-	-	-
	Value added in mining.....mil. dol...	.7	.7	(D)	-	(D)	-	(D)	-	(D)	-	-	-	-
142	Crushed and broken stone, including riprap													
	Establishments.....number...	11	11	-	-	-	-	11	-	10	1	-	-	-
	Employees.....1,000...	.1	.1	-	-	-	-	.1	-	(D)	(D)	-	-	-
	Value added in mining.....mil. dol...	3.1	3.1	-	-	-	-	3.1	-	(D)	(D)	-	-	-
144	Sand and gravel													
	Establishments.....number...	41	41	-	-	-	-	12	-	11	1	1	28	-
	Employees.....1,000...	(D)	(D)	-	-	-	-	(D)	-	(D)	(D)	(Z)	(D)	-
	Value added in mining.....mil. dol...	(D)	(D)	-	-	-	-	(D)	-	(D)	(D)	(Z)	(D)	-

See footnotes at end of table.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1982—
Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of estab- lish- ments	Producing establishments										Nonpro- ducing estab- lish- ments	
			Total	Mines only				Mines with preparation plants				Seps- arately operated prepara- tion plants		Undistri- buted ¹
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods			
14	NONMETALLIC MINERALS, EXCEPT FUELS—Con.													
145	Clay, ceramic, and refractory minerals													
	Establishments.....number...	2	2	2	-	2	-	-	-	-	-	-	-	-
	Employees.....1,000...	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
	Value added in mining.....mil. dol...	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
147	Chemical and fertilizer mineral mining													
	Establishments.....number...	1	1	1	-	1	-	-	-	-	-	-	-	-
	Employees.....1,000...	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
	Value added in mining.....mil. dol...	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
148	Nonmetallic minerals services													
	Establishments.....number...	5	5	-	-	-	-	-	-	-	-	-	5	-
	Employees.....1,000...	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
	Value added in mining.....mil. dol...	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
149	Miscellaneous nonmetallic minerals													
	Establishments.....number...	15	14	2	-	2	-	11	-	10	1	-	1	1
	Employees.....1,000...	.1	.1	(D)	-	(D)	-	(D)	-	(Z)	(D)	-	(Z)	(Z)
	Value added in mining.....mil. dol...	6.6	6.6	(D)	-	(D)	-	(D)	-	3.5	(D)	-	-	(Z)

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4a. Summary Statistics for the State: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Item	1982	Item	1982
Establishments during year..... number..	291	Cost of supplies..... mil. dol..	771.3
With 0 to 19 employees..... do..	237	Supplies used, minerals received, and purchased machinery installed..... do..	483.3
With 20 to 99 employees..... do..	30	Resales..... do..	(D)
With 100 employees or more..... do..	24	Purchased fuels consumed..... do..	70.5
All employees:		Purchased electric energy:	
Average for year.....1,000.....	16.6	Quantity..... mil. kWh..	3 229.1
Payroll for year..... mil. dol..	426.5	Cost..... mil. dol..	160.7
Production, development, and exploration workers:		Electric energy generated less sold..... mil. kWh..	(D)
Average for year.....1,000.....	12.7	Contract work..... mil. dol..	(D)
March..... do..	16.9	Cost of purchased communication services..... do..	1.5
May..... do..	13.2	Value of shipments and receipts..... do..	1 352.5
August..... do..	10.5	Value of resales..... do..	(D)
November..... do..	10.4	Capital expenditures during year (except land and mineral rights)..... do..	167.2
Hours..... millions..	23.4	New capital expenditures during year..... do..	150.8
January to March..... do..	7.6	Buildings and other structures, except land..... do..	12.0
April to June..... do..	6.0	Machinery and equipment..... do..	138.8
July to September..... do..	5.0	Used capital expenditures during year..... do..	4.9
October to December..... do..	4.9	Buildings and other structures, except land..... do..	(Z)
Wages..... mil. dol..	326.4	Machinery and equipment..... do..	4.9
Supplemental labor costs not included in payroll..... do..	127.1	Mineral exploration and development ¹ do..	11.5
Legally required expenditures, including Social Security contributions..... do..	35.2	Rental payments during year..... do..	10.5
Payments for voluntary programs..... do..	91.8	Buildings and other structures, except land..... do..	1.7
Value added by mining..... do..	748.4	Machinery and equipment..... do..	8.9
		Expensed mineral exploration, development, land, and rights ^{1 2} do..	10.8

¹Excludes data for mining service industries and natural gas liquids industry where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industry where data were not collected.

Table 4b. Inventories for the State: End of 1981 and 1982

[Million dollars. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Item	End of 1981	End of 1982
Total Inventories¹	473.4	410.7
Detail by method of valuation:		
Subject to LIFO costing ²	205.4	199.9
LIFO reserve	(D)	(D)
LIFO value	(D)	(D)
Not subject to LIFO costing	255.5	197.7
Valuation method not reported ³	12.5	13.1
Amount subject to LIFO reported without associated reserve and value ⁴	(Z)	-

¹Beginning in the 1982 economic censuses, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

²Only includes data reported by respondents who (a) indicated amount of inventories subject to LIFO cost, and (b) provided sufficient information to determine associated LIFO reserve and value figures.

³Includes data estimated from nonresponse and nonmail administrative records and data reported by respondents who provided total inventory figures without other information.

⁴Includes data reported by respondents who indicated their inventories were subject to LIFO cost but did not provide associated LIFO reserve and value figures.

Table 5. Industry Group Statistics for Counties: 1982 and 1977

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group ¹	1982											1977		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)	
		E ²	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	Arizona -----	-	291	54	16.6	426.5	12.7	23.4	326.4	748.4	771.3	1 352.5	167.2	21.0	750.9
	Apache County -----	-	28	2	.1	1.5	.1	.1	1.0	13.3	2.7	15.4	.6	(Z)	6.2
13	Oil and gas extraction -----	-	25	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas -----	-	10	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Cochise County -----	E2	20	5	.4	7.2	.3	.6	6.1	7.9	14.7	21.4	1.2	.3	3.7
10	Metal mining -----	E1	10	4	.3	6.2	.3	.5	5.3	5.9	(D)	18.7	(D)	(NA)	(NA)
102	Copper ores -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
104	Gold and silver ores -----	E2	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Gila County -----	-	18	5	1.8	51.1	1.2	2.2	32.9	89.7	100.4	166.1	24.1	2.2	88.3
10	Metal mining -----	-	11	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	87.0
102	Copper ores -----	-	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Greenlee County -----	-	6	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
10	Metal mining -----	-	3	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
102	Copper ores -----	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Maricopa County -----	E7	87	6	.8	20.4	.4	.8	7.3	32.7	15.7	45.0	3.4	.3	9.7
10	Metal mining -----	E7	25	2	.4	11.9	.1	.2	1.9	8.6	2.4	10.0	1.0	(NA)	(NA)
13	Oil and gas extraction -----	E9	26	-	.1	1.3	.1	.1	1.0	10.9	5.2	15.6	.5	(NA)	(NA)
131	Crude petroleum and natural gas -----	E9	14	-	(Z)	.8	(Z)	.1	.5	9.3	(D)	13.5	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels -----	E5	31	3	.3	6.1	.2	.4	3.6	10.7	6.9	16.1	1.4	(NA)	(NA)
144	Sand and gravel -----	E5	17	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Navajo County -----	-	10	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
12	Bituminous coal and lignite mining -----	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining -----	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Pima County -----	-	55	14	4.8	114.5	3.3	6.2	84.1	138.1	264.7	365.6	37.3	7.1	273.3
10	Metal mining -----	-	28	11	4.4	104.6	3.0	5.5	76.9	121.7	(D)	341.1	(D)	7.0	269.8
102	Copper ores -----	-	12	9	4.2	100.6	2.9	5.4	75.0	116.8	250.3	333.9	33.2	6.8	264.2
108	Metal mining services -----	-	8	1	.1	1.9	.1	.1	1.5	4.2	2.6	6.2	.6	(NA)	(NA)
13	Oil and gas extraction -----	E2	14	3	.4	8.5	.3	.6	6.2	13.6	(D)	20.4	(D)	(NA)	(NA)
138	Oil and gas field services -----	E2	9	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Pinal County -----	-	17	7	4.6	116.7	4.1	6.9	101.7	175.2	(D)	278.8	(D)	7.2	176.7
10	Metal mining -----	-	10	7	4.5	115.8	4.0	6.8	101.0	173.3	(D)	276.1	(D)	7.0	170.8
102	Copper ores -----	-	8	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group ¹	1982											1977	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)
		E ²	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
	Arizona—Con.													
	Yavapai County	-	19	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
10	Metal mining	-	9	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
102	Copper ores	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels	E8	8	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Yuma County	E2	7	2	.1	2.8	.1	.2	2.0	8.5	(D)	8.5	(D)	(NA)

¹County data shown in this table are limited to counties or industry groups with a value of shipments and receipts greater than \$5 million.²Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.³Some statistics for counties or industry groups with a value of shipments and receipts greater than \$5 million are withheld to avoid disclosing data for individual companies. However, for such counties and industry groups, number of establishments is shown and employment size range is indicated by one of the following symbols: ZZ—less than 100 employees; AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 6. Number of Mineral Establishments in Major Groups by Employment Size Class for Counties: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Arizona	291	112	-	12	88	79	Arizona—Con.						
0 to 4 employees	155	50	-	3	65	37	Greenlee County	8	3	-	-	1	2
5 to 9 employees	49	16	-	1	13	19	0 to 19 employees	5	2	-	-	1	2
10 to 19 employees	33	11	-	2	5	15	250 employees or more	1	1	-	-	-	-
20 to 49 employees	20	9	-	2	2	7	Maricopa County	87	25	-	5	26	31
50 to 99 employees	10	7	-	1	1	1	0 to 19 employees	81	23	-	4	26	28
100 to 249 employees	10	7	-	1	2	-	20 to 99 employees	5	1	-	1	-	3
250 to 499 employees	4	3	-	1	-	-	100 to 249 employees	1	1	-	-	-	-
500 to 999 employees	6	5	-	1	-	-	Mohave County	14	9	-	-	3	2
1,000 to 2,499 employees	3	3	-	-	-	-	0 to 19 employees	12	8	-	-	3	1
2,500 employees or more	1	1	-	-	-	-	20 to 99 employees	2	1	-	-	-	1
Apache County	28	-	-	-	25	3	Navajo County	10	-	-	4	4	2
0 to 19 employees	26	-	-	-	24	2	0 to 19 employees	5	-	-	-	4	1
20 to 99 employees	2	-	-	-	1	1	20 to 99 employees	3	-	-	2	-	1
Cochise County	20	10	-	-	5	5	250 employees or more	2	-	-	2	-	-
0 to 19 employees	15	6	-	-	5	4	Pima County	55	28	-	2	14	11
20 to 99 employees	5	4	-	-	-	1	0 to 19 employees	41	17	-	2	11	11
Coconino County	6	2	-	1	1	2	20 to 99 employees	6	5	-	-	1	-
0 to 19 employees	4	1	-	-	1	2	100 to 249 employees	3	1	-	-	2	-
100 to 249 employees	2	1	-	1	-	-	250 employees or more	5	5	-	-	-	-
Gila County	18	11	-	-	1	6	Pinel County	17	10	-	-	2	5
0 to 19 employees	13	6	-	-	1	6	0 to 19 employees	10	3	-	-	2	5
20 to 99 employees	2	2	-	-	-	-	20 to 99 employees	1	1	-	-	-	-
100 to 249 employees	1	1	-	-	-	-	100 to 249 employees	3	3	-	-	-	-
250 employees or more	2	2	-	-	-	-	250 employees or more	3	3	-	-	-	-
Graham County	4	2	-	-	2	-	Yavapai County	19	9	-	-	2	8
0 to 19 employees	3	1	-	-	2	-	0 to 19 employees	17	8	-	-	2	7
20 to 99 employees	1	1	-	-	-	-	20 to 99 employees	1	-	-	-	-	1
							250 employees or more	1	1	-	-	-	-
							Yuma County	7	3	-	-	2	2
							0 to 19 employees	5	2	-	-	1	2
							20 to 99 employees	2	1	-	-	1	-

Colorado

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SUMMARY OF FINDINGS

The total value of shipments and receipts for the 2,424 establishments classified in mineral industries in Colorado amounted to \$4,128 million in 1982, or 2 percent of the Nation's total. This compares to \$1,600 million in 1977 when it also was 2 percent of the Nation's total. Value added by mining amounted to \$3,098 million in 1982, and payroll in mining amounted to \$1,320 million. All dollar figures shown are in current dollars for the years specified and have not been adjusted for changes

in price levels. When making comparisons to prior years, users should take into consideration the inflation that has occurred.

Mineral industries employment in Colorado was 45.8 thousand in 1982, an increase of 102 percent over 1977. It accounted for 4 percent of the Nation's total. Oil and gas extraction led all other mineral industries in the State, accounting for 65 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1982 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Kind of operation and year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
Mineral industries:											
1982 ¹	22 424	2399	45.8	1 320.4	24.2	49.4	588.7	3 098.3	2 369.6	4 127.5	1 340.3
1977 ¹	976	191	22.7	411.0	14.8	30.0	239.5	1 179.1	863.0	1 599.8	442.5
1972 ¹	665	125	13.5	155.6	9.0	18.4	92.3	408.9	222.7	527.1	104.5
1967 ¹	648	95	12.0	94.6	8.4	16.4	57.2	251.4	134.5	339.1	46.9
1963	858	83	11.2	72.7	8.4	16.2	48.3	253.3	118.1	335.8	35.8
1958	967	129	14.1	76.2	9.9	19.0	47.5	249.4	172.1	362.5	59.1
Excluding oil and gas extraction industries:											
1982 ¹	447	108	16.1	462.0	9.4	17.8	241.9	785.3	403.1	913.5	274.9
1977 ¹ ³	355	80	12.8	218.1	9.8	19.3	156.9	452.4	376.9	614.7	214.6
1972 ¹ ³	297	59	8.0	87.3	6.6	13.1	68.7	217.2	106.0	278.1	45.2
1967 ¹ ³	319	35	7.2	47.8	6.7	12.9	44.3	138.5	75.8	195.9	18.4
1963 ³	451	48	7.8	45.2	6.7	12.4	36.1	131.8	68.5	189.3	10.9
1958 ³	651	70	9.0	44.4	7.5	14.3	35.6	104.5	103.0	184.2	23.4

Note: For data prior to 1958, see 1963 Census of Mineral Industries, volume II.

¹Beginning with 1967, data for single-unit establishments without paid employees were excluded from the census.

²Not comparable to prior years. See Introduction for further explanation.

³Includes data for mining operations at manufacturing locations.

Table 2a. Mineral Establishment Statistics by Industry for the State: 1982 and 1977

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and industry	1982											1977	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
	All mineral industries ..	E2	2 424	399	45.8	1 320.4	24.2	49.4	588.7	3 098.3	2 369.6	4 127.5	1 340.3	22.7
10	Metal mining	E1	205	45	7.3	214.4	4.3	8.3	115.3	326.4	186.3	352.8	159.9	8.2
104	Gold and silver ores	E1	45	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB
1041	Gold ores	E2	35	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
1044	Silver ores	-	10	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB
1061	Ferroalloy ores, except vanadium	-	12	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF
1081	Metal mining services	E3	48	2	.3	8.4	.3	.6	6.6	5.8	3.6	8.1	1.3	BB
109	Miscellaneous metal ores	E4	89	19	2.3	61.2	1.6	3.0	38.0	152.1	76.7	119.2	109.6	1.7
1094	Uranium-radium-vanadium ores	E3	61	17	2.1	55.9	1.4	2.7	35.8	146.0	74.2	111.7	108.5	1.6
1092	Mercury ores and metallic ores, n.e.c.	E9	28	2	.2	5.3	.1	.3	2.2	6.1	2.5	7.5	1.1	(NA)
1099														
12	Bituminous coal and lignite mining	-	103	45	7.1	218.2	3.7	7.0	103.8	359.6	162.5	427.5	94.6	3.2
121	Bituminous coal and lignite mining	-	103	45	7.1	218.2	3.7	7.0	103.8	359.6	162.5	427.5	94.6	3.2
1211	Bituminous coal and lignite	-	85	44	7.0	215.7	3.7	6.9	102.8	357.2	161.2	424.0	94.4	3.0
13	Oil and gas extraction	E3	1 977	291	29.8	858.4	14.8	31.7	346.8	2 312.9	1 966.5	3 214.0	1 065.4	10.1
1311	Crude petroleum and natural gas	E3	906	143	16.2	558.0	3.8	7.9	109.3	1 385.0	1 284.8	1 802.4	867.3	4.6
1321	Natural gas liquids	-	18	1	.1	3.2	.1	.2	2.7	108.6	269.7	367.9	10.5	.2
138	Oil and gas field services	E4	1 053	147	13.5	297.3	10.9	23.5	234.8	819.4	411.9	1 043.7	187.6	5.3
1381	Drilling oil and gas wells	E3	224	50	4.0	97.6	3.6	7.5	82.9	256.2	159.9	326.7	89.4	2.1
1382	Oil and gas field exploration services	E6	330	39	3.3	69.3	2.6	5.9	53.8	212.6	87.5	269.2	30.8	.8
1389	Oil and gas field services, n.e.c.	E2	499	58	6.1	130.4	4.8	10.1	98.1	350.6	164.6	447.8	67.3	2.4
14	Nonmetallic minerals, except fuels	E1	139	18	1.7	29.4	1.4	2.5	22.9	99.3	54.3	133.3	20.3	1.3
142	Crushed and broken stone, including riprap	E1	27	5	.5	5.5	.5	.5	4.4	13.9	(D)	19.6	(D)	.2
1422	Crushed and broken limestone	-	14	2	.2	3.2	.1	.2	2.3	7.3	4.2	10.7	.9	.1
1423	Crushed and broken granite	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
144	Sand and gravel	E2	69	8	.8	12.5	.4	.9	8.9	32.4	16.6	41.6	7.4	.5
1442	Construction sand and gravel	E2	87	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5

See footnotes at end of table.

Table 2a. Mineral Establishment Statistics by Industry for the State: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and industry	1982											1977	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
14	Nonmetallic minerals, except fuels—Con.													
147	Chemical and fertilizer mineral mining	—	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1472	Barite	—	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1481	Nonmetallic minerals services	E4	17	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
149	Miscellaneous nonmetallic minerals	E1	14	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	8.5
1499	Miscellaneous nonmetallic minerals, n.e.c.	E1	12	2	.2	2.8	.2	.3	2.5	10.3	(D)	13.3	(D)	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries and industry groups are withheld to avoid disclosing data for individual companies. However, for such industries and industry groups with 100 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1982

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s. tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures	18	.3	2.8	4.3	(X)
Crushed and broken stone, including riprap	3	(D)	(D)	(D)	(D)
Crushed and broken limestone	3	(D)	(D)	(D)	(D)
Sand and gravel	12	(D)	(D)	(D)	(D)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of estab- lish- ments	Producing establishments										Nonpro- ducing estab- lish- ments	
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants		Undistri- buted¹
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods			
	ALL MINERAL INDUSTRIES													
	Establishments-----number...	2 424	2 326	889	79	22	788	102	20	74	8	23	1 312	98
	Employees-----1,000-----	45.8	44.1	(D)	1.8	5	(D)	8.1	3.8	2.7	1.6	(D)	25.9	1.7
	Value added in mining-----mil. dol.---	3 098.3	3 007.9	(D)	112.5	53.7	(D)	504.9	244.6	202.2	58.1	(D)	860.0	90.4

See footnotes at end of table.

Table 3. **Selected Statistics by Type of Operation and Industry Group for the State: 1982—**
Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of estab- lish- ments	Producing establishments											Nonpro- ducing estab- lish- ments
			Total	Mines only				Mines with preparation plants				Sepsa- rately operated prepara- tion plants	Undistri- buted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well opera- tions, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods			
10	METAL MINING													
	Establishments.....number..	205	176	49	48	1	-	13	9	3	1	5	109	29
	Employees.....1,000..	7.3	6.6	.9	(D)	(D)	-	(D)	1.9	(D)	(D)	.2	(D)	.7
	Value added in mining.....mil. dol..	326.4	261.1	71.2	(D)	(D)	-	(D)	92.6	(D)	(D)	3.0	(D)	65.3
102	Copper ores													
	Establishments.....number..	4	3	-	-	-	-	-	-	-	-	-	3	1
	Employees.....1,000..	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	(D)
	Value added in mining.....mil. dol..	(D)	-	-	-	-	-	-	-	-	-	-	-	(D)
103	Lead and zinc ores													
	Establishments.....number..	7	5	4	4	-	-	-	-	-	-	-	1	2
	Employees.....1,000..	.1	(D)	(D)	(D)	-	-	-	-	-	-	-	(Z)	(D)
	Value added in mining.....mil. dol..	.3	(D)	(D)	(D)	-	-	-	-	-	-	-	-	(D)
104	Gold and silver ores													
	Establishments.....number..	45	32	5	5	-	-	9	6	3	-	2	16	13
	Employees.....1,000..	(D)	(D)	(D)	(D)	-	-	(D)	(D)	(D)	-	(D)	(D)	(D)
	Value added in mining.....mil. dol..	(D)	(D)	(D)	(D)	-	-	(D)	(D)	(D)	-	(D)	(D)	(D)
106	Ferroalloy ores, except vanadium													
	Establishments.....number..	12	12	-	-	-	-	2	1	-	1	-	10	-
	Employees.....1,000..	(D)	(D)	-	-	-	-	(D)	(D)	-	(D)	-	(D)	-
	Value added in mining.....mil. dol..	(D)	(D)	-	-	-	-	(D)	(D)	-	(D)	-	(D)	-
108	Metal mining services													
	Establishments.....number..	48	48	-	-	-	-	-	-	-	-	-	48	-
	Employees.....1,000..	.3	.3	-	-	-	-	-	-	-	-	-	.3	-
	Value added in mining.....mil. dol..	5.8	5.8	-	-	-	-	-	-	-	-	-	5.8	-
109	Miscellaneous metal ores													
	Establishments.....number..	89	76	40	39	1	-	2	2	-	-	3	31	13
	Employees.....1,000..	2.3	(D)	.9	(D)	(D)	-	(D)	(D)	-	-	(D)	.5	(D)
	Value added in mining.....mil. dol..	152.1	(D)	69.9	(D)	(D)	-	(D)	(D)	-	-	(D)	6.2	(D)
12	BITUMINOUS COAL AND LIGNITE MINING													
	Establishments.....number..	103	90	35	31	4	-	20	11	9	-	-	35	13
	Employees.....1,000..	7.1	6.9	1.3	(D)	(D)	-	3.2	1.9	1.3	-	-	2.4	.2
	Value added in mining.....mil. dol..	359.6	352.9	92.8	(D)	(D)	-	257.7	152.1	105.7	-	-	2.4	6.7
121	Bituminous coal and lignite mining													
	Establishments.....number..	103	90	35	31	4	-	20	11	9	-	-	35	13
	Employees.....1,000..	7.1	6.9	1.3	(D)	(D)	-	3.2	1.9	1.3	-	-	2.4	.2
	Value added in mining.....mil. dol..	359.6	352.9	92.8	(D)	(D)	-	257.7	152.1	105.7	-	-	2.4	6.7

See footnotes at end of table.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1982—
Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of estab- lish- ments	Producing establishments										Nonpro- ducing estab- lish- ments	
			Total	Mines only				Mines with preparation plants				Sepsa- rately operated prepara- tion plants		Undistri- buted ¹
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods			
13	OIL AND GAS EXTRACTION													
	Establishments.....number...	1 977	1 926	788	-	-	788	5	-	-	5	17	1 116	51
	Employees.....1,000...	29.8	29.0	(D)	-	-	(D)	(D)	-	-	(D)	.1	21.2	.8
	Value added in mining.....mil. dol...	2 312.9	2 295.6	(D)	-	-	(D)	(D)	-	-	(D)	108.6	819.4	17.3
131	Crude petroleum and natural gas													
	Establishments.....number...	906	855	788	-	-	788	5	-	-	5	-	62	51
	Employees.....1,000...	16.2	15.4	(D)	-	-	(D)	(D)	-	-	(D)	-	7.7	.8
	Value added in mining.....mil. dol...	1 385.0	1 367.7	(D)	-	-	(D)	(D)	-	-	(D)	-	-	17.3
132	Natural gas liquids													
	Establishments.....number...	18	18	-	-	-	-	-	-	-	-	17	1	-
	Employees.....1,000...	.1	.1	-	-	-	-	-	-	-	-	.1	(Z)	-
	Value added in mining.....mil. dol...	108.6	108.6	-	-	-	-	-	-	-	-	108.6	-	-
138	Oil and gas field services													
	Establishments.....number...	1 053	1 053	-	-	-	-	-	-	-	-	-	1 053	-
	Employees.....1,000...	13.5	13.5	-	-	-	-	-	-	-	-	-	13.5	-
	Value added in mining.....mil. dol...	819.4	819.4	-	-	-	-	-	-	-	-	-	819.4	-
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments.....number...	139	134	17	-	17	-	64	-	62	2	1	52	5
	Employees.....1,000...	1.7	1.7	.1	-	.1	-	1.3	-	(D)	(D)	(D)	(D)	(Z)
	Value added in mining.....mil. dol...	99.3	98.2	2.2	-	2.2	-	80.7	-	(D)	(D)	(D)	(D)	1.1
141	Dimension stone													
	Establishments.....number...	3	3	3	-	3	-	-	-	-	-	-	-	-
	Employees.....1,000...	(Z)	(Z)	(Z)	-	(Z)	-	-	-	-	-	-	-	-
	Value added in mining.....mil. dol...	.2	.2	.2	-	.2	-	-	-	-	-	-	-	-
142	Crushed and broken stone, including riprap													
	Establishments.....number...	27	25	1	-	1	-	23	-	23	-	1	-	2
	Employees.....1,000...	.5	(D)	(D)	-	(D)	-	.5	-	.5	-	(D)	-	(D)
	Value added in mining.....mil. dol...	13.9	(D)	(D)	-	(D)	-	13.0	-	13.0	-	(D)	-	(D)
144	Sand and gravel													
	Establishments.....number...	69	66	5	-	5	-	28	-	26	2	-	33	3
	Employees.....1,000...	.6	(D)	(Z)	-	(Z)	-	(D)	-	.3	(D)	-	.2	(D)
	Value added in mining.....mil. dol...	32.4	(D)	.7	-	.7	-	(D)	-	19.2	(D)	-	10.3	(D)
145	Clay, ceramic, and refractory minerals													
	Establishments.....number...	6	6	5	-	5	-	1	-	1	-	-	-	-
	Employees.....1,000...	(D)	(D)	(D)	-	(D)	-	(D)	-	(D)	-	-	-	-
	Value added in mining.....mil. dol...	(D)	(D)	(D)	-	(D)	-	(D)	-	(D)	-	-	-	-
147	Chemical and fertilizer mineral mining													
	Establishments.....number...	3	3	1	-	1	-	1	-	1	-	-	1	-
	Employees.....1,000...	(D)	(D)	(D)	-	(D)	-	(D)	-	(D)	-	-	(Z)	-
	Value added in mining.....mil. dol...	(D)	(D)	(D)	-	(D)	-	(D)	-	(D)	-	-	-	-

See footnotes at end of table.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1982—

Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of establishments	Producing establishments										Nonproducing establishments	
			Total	Mines only				Mines with preparation plants				Separately operated preparation plants		Undistributed¹
				Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods			
14	NONMETALLIC MINERALS, EXCEPT FUELS—Con.													
148	Nonmetallic minerals services													
	Establishments.....number..	17	17	-	-	-	-	-	-	-	-	-	17	-
	Employees1,000..	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
	Value added in mining mil. dol..	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
149	Miscellaneous nonmetallic minerals													
	Establishments.....number..	14	14	2	-	2	-	11	-	11	-	-	1	-
	Employees1,000..	(D)	(D)	(D)	-	(D)	-	(D)	-	(D)	-	-	(Z)	-
	Value added in mining mil. dol..	(D)	(D)	(D)	-	(D)	-	(D)	-	(D)	-	-	-	-

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4a. Summary Statistics for the State: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Item	1982	Item	1982
Establishments during year..... number..	2 424	Cost of supplies..... mil. dol..	2 369.6
With 0 to 19 employees..... do..	2 025	Supplies used, minerals received, and purchased machinery installed..... do..	1 613.5
With 20 to 99 employees..... do..	308	Resales..... do..	9.9
With 100 employees or more..... do..	91	Purchased fuels consumed..... do..	90.5
All employees:		Purchased electric energy:	
Average for year.....1,000..	45.8	Quantity..... mil. kWh..	1 969.2
Payroll for year..... mil. dol..	1 320.4	Cost..... mil. dol..	82.0
Production, development, and exploration workers:		Electric energy generated less sold..... mil. kWh..	(D)
Average for year.....1,000..	24.2	Contract work..... mil. dol..	573.5
March..... do..	25.9	Cost of purchased communication services..... do..	6.7
May..... do..	25.2	Value of shipments and receipts..... do..	4 127.5
August..... do..	24.3	Value of resales..... do..	10.7
November..... do..	21.5	Capital expenditures during year (except land and mineral rights)..... do..	1 340.3
Hours..... millions..	49.4	New capital expenditures during year..... do..	758.3
January to March..... do..	13.3	Buildings and other structures, except land..... do..	136.1
April to June..... do..	13.0	Machinery and equipment..... do..	622.3
July to September..... do..	11.9	Used capital expenditures during year..... do..	43.4
October to December..... do..	11.0	Buildings and other structures, except land..... do..	2.5
Wages..... mil. dol..	588.7	Machinery and equipment..... do..	40.7
Supplemental labor costs not included in payroll..... do..	197.4	Mineral exploration and development ¹ do..	538.5
Legally required expenditures, including Social Security contributions..... do..	89.4	Rental payments during year..... do..	59.6
Payments for voluntary programs..... do..	108.0	Buildings and other structures, except land..... do..	22.8
Value added by mining..... do..	3 098.3	Machinery and equipment..... do..	36.8
		Expensed mineral exploration, development, land, and rights ^{1 2} do..	503.3

¹Excludes data for mining service industries and natural gas liquids industry where data were not collected.²Excludes data for mineral land and rights for the crude petroleum and natural gas industry where data were not collected.

Table 4b. Inventories for the State: End of 1981 and 1982

[Million dollars. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Item	End of 1981	End of 1982
Total Inventories¹	400.6	429.9
Detail by method of valuation:		
Subject to LIFO costing ²	52.6	71.9
LIFO reserve	(D)	(D)
LIFO value	(D)	(D)
Not subject to LIFO costing	247.2	252.1
Valuation method not reported ³	100.9	106.0
Amount subject to LIFO reported without associated reserve and value ⁴	(Z)	(Z)

¹Beginning in the 1982 economic censuses, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

²Only includes data reported by respondents who (a) indicated amount of inventories subject to LIFO cost, and (b) provided sufficient information to determine associated LIFO reserve and value figures.

³Includes data estimated for nonresponse and nonmail administrative records and data reported by respondents who provided total inventory figures without other information.

⁴Includes data reported by respondents who indicated their inventories were subject to LIFO cost but did not provide associated LIFO reserve and value figures.

311.7 411.7
552.7 723.1
315.8 491.1
1180.2 1625.9
38.0 39.40

Table 5. Industry Group Statistics for Counties: 1982 and 1977

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group ¹	1982											1977		
		E ²	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)
			Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
	Colorado	E2	2 424	399	45.8	1 320.4	24.2	49.4	588.7	3 098.3	2 369.6	4 127.5	1 340.3	22.7	1 179.1
	Adams County	E1	102	15	1.0	24.6	.7	1.6	16.7	177.8	85.1	208.1	54.8	.6	63.9
13	Oil and gas extraction	E1	92	13	.8	21.8	.6	1.4	14.3	168.8	(D)	198.0	(D)	.5	60.9
131	Crude petroleum and natural gas	-	40	2	.2	7.2	.1	.3	2.8	117.0	28.0	110.5	34.6	.2	32.5
132	Natural gas liquids	-	5	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services	E2	47	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels	E3	9	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
144	Sand and gravel	E3	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Arapahoe County	E4	211	48	5.9	172.8	2.9	5.9	60.2	311.7	158.2	411.7	58.2	.7	13.5
13	Oil and gas extraction	E4	186	41	5.1	143.2	2.7	5.5	54.9	306.1	151.1	401.0	56.2	.4	21.8
131	Crude petroleum and natural gas	E7	85	23	2.6	96.5	.6	1.2	17.3	144.8	67.9	186.6	26.2	.2	10.2
132	Natural gas liquids	-	2	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services	E3	99	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels	-	7	1	.1	1.6	(Z)	.1	1.2	4.5	(D)	6.5	(D)	(NA)	(NA)
144	Sand and gravel	-	4	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Archuleta County	-	6	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
12	Bituminous coal and lignite mining	-	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining	-	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Baca County	E1	31	-	.1	3.3	.1	.1	2.1	17.4	10.3	19.3	8.4	(NA)	(NA)
13	Oil and gas extraction	E1	31	-	.1	3.3	.1	.1	2.1	17.4	10.3	19.3	8.4	(NA)	(NA)
131	Crude petroleum and natural gas	E1	13	-	(Z)	1.4	(Z)	(Z)	1.0	13.1	8.2	13.8	7.5	(NA)	(NA)
138	Oil and gas field services	-	18	-	.1	1.8	.1	.1	1.1	4.3	2.1	5.5	.9	(NA)	(NA)
	Bent County	-	9	-	(Z)	.1	(Z)	(Z)	.1	2.7	(D)	5.1	(D)	(NA)	(NA)
13	Oil and gas extraction	-	9	-	(Z)	.1	(Z)	(Z)	.1	2.7	(D)	5.1	(D)	(NA)	(NA)
	Boulder County	E4	58	1	.3	5.7	.2	.4	4.4	15.5	10.2	21.7	4.0	.2	7.6
13	Oil and gas extraction	E4	41	1	.2	3.8	.1	.3	2.8	10.5	7.7	15.0	3.2	(NA)	(NA)
138	Oil and gas field services	E2	28	1	.1	2.9	.1	.2	2.4	7.1	(D)	10.4	(D)	(NA)	(NA)
	Cheyenne County	-	22	1	.1	1.8	.1	.1	1.4	46.3	11.8	49.8	8.3	.1	3.9
13	Oil and gas extraction	-	22	1	.1	1.8	.1	.1	1.4	46.3	11.8	49.8	8.3	.1	3.9
131	Crude petroleum and natural gas	-	13	-	(Z)	.4	(Z)	(Z)	.3	42.6	9.5	44.5	7.6	(NA)	(NA)
138	Oil and gas field services	-	9	1	.1	1.4	(Z)	.1	1.1	3.7	2.3	5.3	.7	(NA)	(NA)
	Clear Creek County	-	8	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
10	Metal mining	-	6	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
106	Ferroalloy ores, except vanadium	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group ¹	1982											1977		
		E ²	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)
			Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
14	Colorado—Con. Conejos County ----- Nonmetallic minerals, except fuels-----	-	3	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
149	Miscellaneous nonmetallic minerals -----	-	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
12	Delta County ----- Bituminous coal and lignite mining -----	E1	24	4	.5	12.2	.4	.8	9.5	45.2	15.4	52.4	8.3	.2	9.8
121	Bituminous coal and lignite mining -----	E1	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction -----	E1	13	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	E1	11	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
10	Denver County ----- Metal mining -----	E7	549	115	15.8	498.3	4.8	10.3	117.8	552.7	262.8	723.1	92.4	6.2	130.8
109	Miscellaneous metal ores -----	E9	21	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	4.3
13	Oil and gas extraction -----	E6	12	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas -----	E6	501	104	13.3	414.2	4.4	9.4	105.4	506.4	(D)	678.3	(D)	5.4	124.1
132	Natural gas liquids -----	E9	271	73	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.2	71.5
138	Oil and gas field services -----	E8	1	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	2.7
14	Oil and gas field services -----	E8	229	31	3.7	81.6	2.9	6.5	62.6	208.1	100.1	261.9	46.2	2.1	49.8
144	Nonmetallic minerals, except fuels----- Sand and gravel -----	E6	9	1	.1	2.6	.1	.2	2.1	6.0	3.9	9.2	.6	(NA)	(NA)
13	Dolores County ----- Oil and gas extraction -----	E4	5	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas -----	-	18	-	(Z)	1.2	(Z)	.1	.6	1.5	13.2	7.4	7.3	(NA)	(NA)
131	Elbert County ----- Oil and gas extraction -----	-	18	-	(Z)	1.2	(Z)	.1	.6	1.5	13.2	7.4	7.3	(NA)	(NA)
131	Crude petroleum and natural gas -----	-	10	-	(Z)	.8	(Z)	(Z)	.3	.6	12.5	6.0	7.1	(NA)	(NA)
13	Oil and gas extraction -----	-	25	1	.1	2.2	.1	.1	1.6	19.3	15.1	24.9	9.5	(NA)	(NA)
131	Crude petroleum and natural gas -----	-	24	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	El Paso County ----- Oil and gas extraction -----	E7	10	1	(Z)	1.1	(Z)	(Z)	.6	15.8	12.6	20.7	7.7	(NA)	(NA)
131	Crude petroleum and natural gas -----	E7	34	3	.2	4.6	.2	.3	3.2	17.6	9.4	25.5	1.5	.1	4.3
131	Crude petroleum and natural gas -----	E8	20	-	.1	1.9	(Z)	.1	1.1	11.5	(D)	16.0	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels-----	E9	8	-	(Z)	.8	(Z)	(Z)	.3	8.5	3.9	12.4	-	(NA)	(NA)
142	Crushed and broken stone, including riprap -----	E3	9	2	.1	1.9	.1	.1	1.4	5.2	(D)	8.5	(D)	(NA)	(NA)
10	Fremont County ----- Metal mining -----	E3	5	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
109	Miscellaneous metal ores -----	-	15	6	.6	15.5	.4	.7	10.3	25.7	(D)	41.1	(D)	.2	6.4
12	Bituminous coal and lignite mining -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction -----	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas -----	E1	7	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
10	Garfield County ----- Metal mining -----	E1	5	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
109	Miscellaneous metal ores -----	-	55	10	1.2	40.9	.7	1.3	20.9	62.5	(D)	94.5	(D)	(NA)	(NA)
12	Bituminous coal and lignite mining -----	-	3	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining -----	-	2	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction -----	-	5	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas -----	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	-	5	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction -----	-	43	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas -----	-	21	5	.5	20.7	.1	.2	3.4	26.9	(D)	30.1	(D)	(NA)	(NA)
138	Oil and gas field services -----	-	22	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group ¹	1982											1977	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)
		E ²	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
	Colorado—Con.													
	Grand County	-	6	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction	-	4	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services	-	3	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Gunnison County	-	17	5	.7	16.7	.6	1.0	15.2	57.8	17.5	37.7	37.5	27.4
12	Bituminous coal and lignite mining	-	6	5	.7	16.4	.6	1.0	14.9	54.8	(D)	36.7	(D)	21.8
121	Bituminous coal and lignite mining	-	6	5	.7	16.4	.6	1.0	14.9	54.8	(D)	36.7	(D)	21.8
	Jackson County	-	23	3	.1	3.7	.1	.2	3.3	17.1	6.4	12.1	11.4	9.6
13	Oil and gas extraction	-	19	2	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services	-	12	1	.1	1.6	(Z)	.1	1.3	4.6	2.0	5.2	1.4	(NA)
	Jefferson County	E7	160	30	2.7	76.0	1.1	2.3	26.2	80.8	39.5	101.7	18.6	26.7
10	Metal mining	E5	49	20	2.0	58.0	.6	1.2	15.5	29.6	15.5	32.6	12.5	16.2
104	Gold and silver ores	E2	12	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
109	Miscellaneous metal ores	E6	17	7	.5	13.0	.3	.6	7.5	14.5	(D)	15.6	(D)	(NA)
13	Oil and gas extraction	E9	86	5	.5	12.7	.4	.8	7.7	43.3	20.2	59.4	4.0	6.2
131	Crude petroleum and natural gas	E9	33	2	.2	4.4	.1	.2	1.5	24.0	11.4	34.6	.8	(NA)
138	Oil and gas field services	E8	53	3	.4	8.2	.3	.7	6.2	19.3	8.7	24.9	3.2	(NA)
14	Nonmetallic minerals, except fuels	E2	18	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	4.1
	Kiowa County	-	22	2	.1	4.4	(Z)	.1	1.1	19.2	(D)	21.2	(D)	4.4
13	Oil and gas extraction	-	22	2	.1	4.4	(Z)	.1	1.1	19.2	(D)	21.2	(D)	4.4
131	Crude petroleum and natural gas	-	16	1	.1	3.5	(Z)	.4	16.8	(D)	18.0	(D)	(NA)	(NA)
	Lake County	-	10	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
10	Metal mining	-	7	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
104	Gold and silver ores	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
106	Ferroalloy ores, except vanadium	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	La Plata County	-	52	3	.4	9.2	.3	.7	7.2	78.8	38.1	91.7	25.2	31.3
13	Oil and gas extraction	-	47	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	30.7
131	Crude petroleum and natural gas	-	29	1	.1	3.4	.1	.3	3.0	64.4	32.4	74.7	22.2	(NA)
138	Oil and gas field services	-	18	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Larimer County	E2	44	4	.3	6.2	.2	.5	4.4	24.9	12.3	29.3	7.9	5.6
13	Oil and gas extraction	E2	29	1	.2	3.4	.1	.3	2.8	18.6	10.2	21.7	7.0	(NA)
131	Crude petroleum and natural gas	E5	8	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services	E1	20	1	.1	2.7	.1	.2	2.3	7.9	5.2	10.9	2.2	(NA)
14	Nonmetallic minerals, except fuels	E1	11	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Las Animas County	E2	12	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
12	Bituminous coal and lignite mining	E2	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining	E2	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Logan County	E3	60	8	.6	16.4	.3	.8	8.4	39.4	18.3	52.4	5.3	15.4
13	Oil and gas extraction	E3	60	8	.6	16.4	.3	.8	8.4	39.4	18.3	52.4	5.3	15.4
131	Crude petroleum and natural gas	E4	27	2	.2	8.9	.1	.1	2.1	16.3	7.5	21.8	1.9	11.2
138	Oil and gas field services	E3	33	6	.3	7.5	.3	.6	6.2	23.2	10.8	30.5	3.4	4.2
	Mesa County	E2	112	23	2.1	55.6	1.3	2.9	32.1	186.3	88.4	142.6	132.0	22.3
12	Bituminous coal and lignite mining	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction	E3	95	19	1.4	35.9	.9	2.0	20.5	85.0	(D)	109.4	(D)	8.3
131	Crude petroleum and natural gas	E4	27	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
132	Natural gas liquids	-	1	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services	E3	67	14	1.0	21.1	.8	1.7	16.8	59.8	26.5	72.8	13.4	(NA)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1982 and 1977—Con.

(For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A)

SIC code	Geographic area and industry group ¹	1982											1977		
		E ²	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees (1,000)	Value added by mining (million dollars)
			Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
10	Colorado—Con. Mineral County -----	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Metal mining -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
104	Gold and silver ores -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Moffat County -----	-	68	8	1.0	31.0	.7	1.8	20.4	90.1	26.1	95.1	21.1	.8	37.8
12	Bituminous coal and lignite mining -----	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining -----	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction -----	-	59	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas -----	E1	25	4	.3	9.8	.1	.5	4.3	21.6	6.8	21.0	7.4	.1	18.4
138	Oil and gas field services -----	-	34	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Montezuma County -----	E2	36	5	.2	5.2	.2	.4	4.0	18.4	14.3	23.7	9.0	.2	5.9
13	Oil and gas extraction -----	E2	33	5	.2	5.1	.2	.4	3.9	17.9	(D)	23.3	(D)	(NA)	(NA)
131	Crude petroleum and natural gas -----	E5	14	1	(Z)	.9	(Z)	(Z)	.4	7.2	9.8	10.1	6.9	(NA)	(NA)
138	Oil and gas field services -----	-	19	4	.2	4.2	.2	.3	3.5	10.7	(D)	13.2	(D)	(NA)	(NA)
	Montrose County -----	E3	44	4	.6	12.0	.5	.9	9.5	23.8	14.3	33.0	5.1	.7	13.0
10	Metal mining -----	E2	30	3	.4	9.6	.4	.7	7.9	17.5	11.1	25.0	3.6	.6	10.8
109	Miscellaneous metal ores -----	E2	24	2	.4	7.9	.3	.6	6.6	14.1	(D)	20.4	(D)	(NA)	(NA)
13	Oil and gas extraction -----	E9	8	1	.1	1.3	.1	.1	1.1	4.4	(D)	5.6	(D)	(NA)	(NA)
138	Oil and gas field services -----	E9	8	1	.1	1.3	.1	.1	1.1	4.4	(D)	5.6	(D)	(NA)	(NA)
	Morgan County -----	E5	57	6	.5	11.3	.4	.8	9.0	38.5	25.1	54.4	9.2	.3	12.6
13	Oil and gas extraction -----	E5	56	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas -----	E1	20	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	E7	35	6	.4	9.9	.3	.7	8.1	28.3	13.2	36.5	5.0	.3	8.3
	Park County -----	-	11	3	.1	2.2	.1	.1	1.0	5.2	2.4	5.4	2.3	(NA)	(NA)
	Prowers County -----	E1	17	2	.1	1.9	.1	.2	1.4	6.7	4.4	10.3	.8	(NA)	(NA)
13	Oil and gas extraction -----	E1	16	2	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	-	10	2	.1	1.7	.1	.2	1.3	5.3	2.5	7.3	.5	(NA)	(NA)
	Rio Blanco County -----	-	92	21	1.9	53.6	1.4	2.7	38.8	315.8	289.6	491.1	114.2	1.0	216.3
12	Bituminous coal and lignite mining -----	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining -----	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction -----	-	86	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	216.0
131	Crude petroleum and natural gas -----	-	36	5	.4	13.2	.2	.3	6.1	212.6	222.7	340.4	94.9	(NA)	(NA)
132	Natural gas liquids -----	-	3	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	-	47	13	1.0	23.7	.8	1.7	19.4	53.7	31.9	71.3	14.3	(NA)	(NA)
	Routt County -----	-	41	8	.9	24.7	.5	1.2	17.9	83.4	43.0	117.7	8.7	.5	51.2
12	Bituminous coal and lignite mining -----	-	13	5	.8	22.5	.5	1.0	16.1	73.4	38.8	106.8	5.4	.5	49.1
121	Bituminous coal and lignite mining -----	-	13	5	.8	22.5	.5	1.0	16.1	73.4	38.8	106.8	5.4	.5	49.1
13	Oil and gas extraction -----	E1	24	1	.1	1.9	.1	.1	1.6	9.3	(D)	10.0	(D)	(NA)	(NA)
138	Oil and gas field services -----	E1	13	1	.1	1.8	.1	.1	1.5	5.1	(D)	5.8	(D)	(NA)	(NA)
	Saguache County -----	-	2	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
10	Metal mining -----	-	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
109	Miscellaneous metal ores -----	-	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	San Juan County -----	-	8	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
10	Metal mining -----	-	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
104	Gold and silver ores -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Teller County -----	E8	10	4	.2	5.6	.2	.4	4.8	12.6	2.4	13.0	2.0	(NA)	(NA)
10	Metal mining -----	E7	7	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
104	Gold and silver ores -----	E7	7	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group ¹	1982											1977		
		E ²	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)
			Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
13	Colorado—Con. Washington County -----	-	55	4	.3	7.4	.2	.4	3.8	40.3	14.1	47.2	7.2	.1	7.0
	Oil and gas extraction -----	-	55	4	.3	7.4	.2	.4	3.8	40.3	14.1	47.2	7.2	.1	7.0
131	Crude petroleum and natural gas -----	-	38	3	.2	5.5	.1	.2	2.3	34.2	9.5	39.0	4.7	.1	6.7
138	Oil and gas field services -----	E2	17	1	.1	1.9	.1	.2	1.5	6.1	4.6	8.2	2.4	(NA)	(NA)
	Weld County -----	E1	143	31	2.5	61.7	1.8	4.0	43.9	382.5	435.8	687.9	110.4	.8	142.1
13	Oil and gas extraction -----	E2	133	28	2.1	52.8	1.5	3.2	36.7	320.8	(D)	630.4	(D)	.5	140.4
131	Crude petroleum and natural gas -----	E1	64	8	.6	18.0	.3	.7	9.1	159.5	155.4	241.0	73.9	(Z)	107.8
132	Natural gas liquids -----	-	4	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	E4	65	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels -----	-	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
147	Chemical and fertilizer mineral mining -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Yuma County -----	-	24	3	.1	3.1	.1	.2	2.1	68.9	13.6	76.7	5.8	(NA)	(NA)
13	Oil and gas extraction -----	-	24	3	.1	3.1	.1	.2	2.1	68.9	13.6	76.7	5.8	(NA)	(NA)
131	Crude petroleum and natural gas -----	-	12	1	.1	1.3	(Z)	.1	.7	64.0	10.3	70.0	4.3	(NA)	(NA)
138	Oil and gas field services -----	-	12	2	.1	1.8	.1	.2	1.4	5.0	3.3	6.7	1.5	(NA)	(NA)

¹County data shown in this table are limited to counties or industry groups with a value of shipments and receipts greater than \$5 million.

²Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

³Some statistics for counties or industry groups with a value of shipments and receipts greater than \$5 million are withheld to avoid disclosing data for individual companies. However, for such counties and industry groups, number of establishments is shown and employment size range is indicated by one of the following symbols: ZZ—less than 100 employees; AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 6. Number of Mineral Establishments in Major Groups by Employment Size Class for Counties: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthra-cite mining (SIC 11)	Bitumi-nous coal and lignite mining (SIC 12)	Oil and gas ex-traction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthra-cite mining (SIC 11)	Bitumi-nous coal and lignite mining (SIC 12)	Oil and gas ex-traction (SIC 13)	Non-metallic minerals mining (SIC 14)
Colorado-----	2 424	205	-	103	1 977	139	Colorado—Con.						
0 to 4 employees -----	1 418	102	-	30	1 215	71	Archuleta County -----	8	1	-	1	4	-
5 to 9 employees -----	348	30	-	16	272	30	0 to 19 employees -----	5	1	-	-	4	-
10 to 19 employees -----	259	28	-	12	199	20	20 to 99 employees -----	1	-	-	1	-	-
20 to 49 employees -----	225	18	-	21	173	13	Baca County -----	31	-	-	-	31	-
50 to 99 employees -----	83	9	-	7	64	3	0 to 19 employees -----	31	-	-	-	31	-
100 to 249 employees -----	59	13	-	6	39	1	Bent County -----	9	-	-	-	9	-
250 to 499 employees -----	25	3	-	10	11	1	0 to 19 employees -----	9	-	-	-	9	-
500 to 999 employees -----	1	-	-	-	1	-	Boulder County -----	58	7	-	1	41	9
1,000 to 2,499 employees -----	5	2	-	1	2	-	0 to 19 employees -----	57	7	-	1	40	9
2,500 employees or more -----	1	-	-	-	1	-	20 to 99 employees -----	1	-	-	-	1	-
Adams County -----	102	1	-	-	92	9	Chaffee County -----	4	-	-	-	1	3
0 to 19 employees -----	87	1	-	-	79	7	0 to 19 employees -----	4	-	-	-	1	3
20 to 99 employees -----	14	-	-	-	12	2	Cheyenne County -----	22	-	-	-	22	-
100 to 249 employees -----	1	-	-	-	1	-	0 to 19 employees -----	21	-	-	-	21	-
Alamosa County -----	5	-	-	-	3	2	20 to 99 employees -----	1	-	-	-	1	-
0 to 19 employees -----	4	-	-	-	3	1	Clear Creek County -----	8	6	-	-	1	1
250 employees or more -----	1	-	-	-	-	1	0 to 19 employees -----	7	5	-	-	1	1
Arapahoe County -----	211	8	-	10	186	7	250 employees or more -----	1	1	-	-	-	-
0 to 19 employees -----	163	7	-	5	145	6							
20 to 99 employees -----	38	-	-	4	33	1							
100 to 249 employees -----	5	1	-	-	4	-							
250 employees or more -----	5	-	-	1	4	-							

Table 6. Number of Mineral Establishments in Major Groups by Employment Size Class for Counties: 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Colorado—Con.							Colorado—Con.						
Conejos County	3	1	-	-	1	1	Kit Carson County	14	-	-	-	14	-
0 to 19 employees	2	1	-	-	1	-	0 to 19 employees	14	-	-	-	14	-
20 to 99 employees	1	-	-	-	-	1	100 to 249 employees	1	1	-	-	-	-
250 employees or more	1	-	-	-	-	1	250 employees or more	1	1	-	-	-	-
Costilla County	2	-	-	1	-	1	Lake County	10	7	-	-	2	1
0 to 19 employees	1	-	-	1	-	-	0 to 19 employees	8	5	-	-	2	1
20 to 99 employees	1	-	-	-	-	1	100 to 249 employees	1	1	-	-	-	-
250 employees or more	1	-	-	-	-	1	250 employees or more	1	1	-	-	-	-
Crowley County	4	-	-	-	4	-	La Plata County	52	2	-	1	47	2
0 to 19 employees	4	-	-	-	4	-	0 to 19 employees	49	2	-	-	45	2
20 to 99 employees	24	1	-	6	13	4	20 to 99 employees	2	-	-	1	1	-
250 employees or more	1	-	-	1	-	-	100 to 249 employees	1	-	-	-	1	-
Delta County	24	1	-	6	13	4	Larimer County	44	4	-	-	29	11
0 to 19 employees	20	1	-	3	12	4	0 to 19 employees	40	4	-	-	28	8
20 to 99 employees	3	-	-	2	1	-	20 to 99 employees	4	-	-	-	1	3
250 employees or more	1	-	-	1	-	-	250 employees or more	1	-	-	-	-	-
Denver County	549	21	-	18	501	9	Las Animas County	12	1	-	5	4	2
0 to 19 employees	434	18	-	11	397	8	0 to 19 employees	9	1	-	2	4	2
20 to 99 employees	79	1	-	4	73	1	20 to 99 employees	2	-	-	2	-	-
100 to 249 employees	25	1	-	1	23	-	100 to 249 employees	1	-	-	1	-	-
250 employees or more	11	1	-	2	8	-	250 employees or more	1	-	-	-	-	-
Dolores County	18	-	-	-	18	-	Lincoln County	9	-	-	-	9	-
0 to 19 employees	18	-	-	-	18	-	0 to 19 employees	9	-	-	-	9	-
20 to 99 employees	12	1	-	1	7	3	100 to 249 employees	1	-	-	-	-	-
250 employees or more	1	-	-	-	1	-	Logan County	60	-	-	-	60	-
Douglas County	12	1	-	1	7	3	0 to 19 employees	52	-	-	-	52	-
0 to 19 employees	11	1	-	1	6	3	20 to 99 employees	7	-	-	-	7	-
20 to 99 employees	1	-	-	-	1	-	100 to 249 employees	1	-	-	-	1	-
250 employees or more	1	-	-	-	1	-	Mesa County	112	10	-	4	95	3
Eagle County	12	2	-	1	3	6	0 to 19 employees	89	8	-	3	76	2
0 to 19 employees	11	2	-	1	3	6	20 to 99 employees	17	-	-	-	16	1
20 to 99 employees	1	-	-	-	-	-	100 to 249 employees	5	2	-	-	3	-
250 employees or more	1	-	-	-	1	-	250 employees or more	1	-	-	1	-	-
Elbert County	25	1	-	-	24	-	Mineral County	3	2	-	-	1	-
0 to 19 employees	24	1	-	-	23	-	0 to 19 employees	2	1	-	-	1	-
20 to 99 employees	1	-	-	-	1	-	20 to 99 employees	1	1	-	-	-	-
250 employees or more	1	-	-	-	1	-	100 to 249 employees	1	-	-	-	-	-
El Paso County	34	3	-	2	20	9	Moffat County	68	4	-	4	59	1
0 to 19 employees	31	3	-	1	20	7	0 to 19 employees	60	4	-	1	54	1
20 to 99 employees	3	-	-	1	-	2	20 to 99 employees	5	-	-	1	4	-
250 employees or more	1	-	-	-	-	-	100 to 249 employees	2	-	-	1	1	-
Fremont County	15	1	-	3	7	4	250 employees or more	1	-	-	1	-	-
0 to 19 employees	9	-	-	2	3	4	Montezuma County	36	2	-	-	33	1
20 to 99 employees	4	-	-	-	4	-	0 to 19 employees	31	2	-	-	28	1
100 to 249 employees	2	1	-	1	-	-	20 to 99 employees	5	-	-	-	5	-
250 employees or more	2	1	-	1	-	-	Montrose County	44	30	-	1	8	5
Garfield County	55	3	-	5	43	4	0 to 19 employees	40	27	-	1	7	5
0 to 19 employees	45	2	-	4	35	4	20 to 99 employees	3	2	-	-	1	-
20 to 99 employees	8	1	-	-	7	-	100 to 249 employees	1	1	-	-	-	-
250 employees or more	2	-	-	1	1	-	250 employees or more	1	1	-	-	-	-
Gilpin County	3	2	-	-	1	-	Morgan County	57	-	-	-	56	1
0 to 19 employees	3	2	-	-	1	-	0 to 19 employees	51	-	-	-	50	1
20 to 99 employees	6	1	-	-	4	1	20 to 99 employees	5	-	-	-	5	-
250 employees or more	1	-	-	-	1	-	100 to 249 employees	1	-	-	-	1	-
Gunnison County	17	3	-	6	6	2	Otero County	1	-	-	-	1	-
0 to 19 employees	12	3	-	1	6	2	0 to 19 employees	1	-	-	-	1	-
20 to 99 employees	3	-	-	3	-	-	20 to 99 employees	5	4	-	-	1	-
250 employees or more	2	-	-	2	-	-	100 to 249 employees	1	-	-	-	-	-
Hinsdale County	4	1	-	-	3	-	Ouray County	5	4	-	-	1	-
0 to 19 employees	3	-	-	-	3	-	0 to 19 employees	5	4	-	-	1	-
20 to 99 employees	1	1	-	-	-	-	20 to 99 employees	11	4	-	-	6	1
250 employees or more	1	-	-	-	-	-	100 to 249 employees	8	2	-	-	5	1
Huerfano County	6	-	-	-	6	-	250 employees or more	3	2	-	-	1	-
0 to 19 employees	5	-	-	-	5	-	Pitkin County	4	-	-	1	2	1
20 to 99 employees	1	-	-	-	1	-	0 to 19 employees	4	-	-	1	2	1
250 employees or more	1	-	-	-	1	-	20 to 99 employees	17	-	-	1	16	-
Jackson County	23	1	-	3	19	-	100 to 249 employees	15	-	-	1	14	-
0 to 19 employees	20	1	-	2	17	-	250 employees or more	2	-	-	-	2	-
20 to 99 employees	3	-	-	1	2	-	Pueblo County	10	1	-	-	6	3
250 employees or more	1	-	-	-	-	-	0 to 19 employees	10	1	-	-	6	3
Jefferson County	160	49	-	7	86	18	Rio Blanco County	92	-	-	5	86	1
0 to 19 employees	130	29	-	5	81	15	0 to 19 employees	71	-	-	2	68	1
20 to 99 employees	24	14	-	2	5	3	20 to 99 employees	18	-	-	2	16	-
100 to 249 employees	5	5	-	-	-	-	100 to 249 employees	1	-	-	-	1	-
250 employees or more	1	1	-	-	-	-	250 employees or more	2	-	-	1	1	-
Kiowa County	22	-	-	-	22	-							
0 to 19 employees	20	-	-	-	20	-							
20 to 99 employees	2	-	-	-	2	-							

Table 6. Number of Mineral Establishments in Major Groups by Employment Size Class for Counties: 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Colorado—Con.							Colorado—Con.						
Rio Grande County	3	2	-	-	1	-	Sedgwick County	11	-	-	-	11	-
0 to 19 employees	3	2	-	-	1	-	0 to 19 employees	11	-	-	-	11	-
Routt County	41	1	-	13	24	3	Summit County	5	1	-	-	2	2
0 to 19 employees	35	1	-	8	23	3	0 to 19 employees	5	1	-	-	2	2
20 to 99 employees	4	-	-	3	1	-	Teller County	10	7	-	-	3	-
100 to 249 employees	1	-	-	1	-	-	0 to 19 employees	6	3	-	-	3	-
250 employees or more	1	-	-	1	-	-	20 to 99 employees	4	4	-	-	-	-
Saguache County	2	1	-	-	1	-	Washington County	55	-	-	-	55	-
0 to 19 employees	1	-	-	-	1	-	0 to 19 employees	51	-	-	-	51	-
20 to 99 employees	1	1	-	-	-	-	20 to 99 employees	4	-	-	-	4	-
San Juan County	8	5	-	-	2	1	Weld County	143	-	-	3	133	7
0 to 19 employees	6	4	-	-	1	1	0 to 19 employees	112	-	-	2	105	5
20 to 99 employees	1	-	-	-	1	-	20 to 99 employees	26	-	-	1	24	1
100 to 249 employees	1	1	-	-	-	-	100 to 249 employees	4	-	-	-	3	1
							250 employees or more	1	-	-	-	1	-
San Miguel County	11	3	-	-	8	-	Yuma County	24	-	-	-	24	-
0 to 19 employees	10	2	-	-	8	-	0 to 19 employees	21	-	-	-	21	-
20 to 99 employees	1	1	-	-	-	-	20 to 99 employees	3	-	-	-	3	-

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SUMMARY OF FINDINGS

The total value of shipments and receipts for the 191 establishments classified in mineral industries in Idaho amounted to \$304 million in 1982, compared to \$185 million in 1977. Value added by mining amounted to \$200 million in 1982, and payroll in mining amounted to \$87 million. All dollar figures shown are in current dollars for the years specified and have not been adjusted for changes in price levels. When making comparisons to prior

years, users should take into consideration the inflation that has occurred.

Mineral industries employment in Idaho was 3.1 thousand in 1982, a decrease of 6 percent from 1977. Metal mining led all other mineral industries in the State, accounting for 61 percent of the State's mineral industries employment.

Table 1. **Historical Statistics for the State: 1982 and Earlier Census Years**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Kind of operation and year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Peyroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
Mineral industries:											
1982 ¹ -----	² 191	² 30	3.1	86.6	2.4	5.0	67.1	199.5	135.8	303.7	31.6
1977 ¹ -----	125	24	3.3	52.9	2.7	5.4	41.8	144.1	81.2	184.7	40.7
1972 ¹ -----	94	20	2.8	28.6	2.4	4.7	22.8	51.3	38.6	84.4	5.5
1967 ¹ -----	97	23	3.1	23.3	2.6	5.2	18.6	48.1	27.1	63.8	11.4
1963-----	145	14	3.3	19.1	2.8	5.5	15.5	40.1	17.0	51.9	5.1
1958-----	170	22	3.9	20.9	3.3	6.3	16.4	36.8	18.1	52.1	2.9

Note: For data prior to 1958, see 1963 Census of Mineral Industries, volume II.

¹Beginning with 1967, data for single-unit establishments without paid employees were excluded from the census.²Not comparable to prior years. See Introduction for further explanation.Table 2a. **Mineral Establishment Statistics by Industry for the State: 1982 and 1977**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and industry	1982											1977	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Peyroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
	All mineral industries ----	-	191	30	3.1	86.6	2.4	5.0	67.1	199.5	135.8	303.7	31.6	3.3
10	Metal mining-----	-	66	14	1.9	61.1	1.4	3.1	46.6	116.1	54.3	150.2	20.1	2.3
1031	Lead and zinc ores -----	E9	10	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC
104	Gold and silver ores -----	-	24	10	1.5	47.6	1.2	2.7	39.1	108.7	38.7	129.0	18.3	1.3
1044	Silver ores -----	-	19	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3
1081	Metal mining services -----	-	14	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)
13	Oil and gas extraction -----	E1	65	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
138	Oil and gas field services -----	E1	54	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
1382	Oil and gas field exploration services -----	-	28	4	.2	3.3	.2	.4	2.9	10.6	5.2	14.0	1.7	(NA)
14	Nonmetallic minerals, except fuels -----	-	58	10	.9	19.4	.7	1.3	15.2	70.6	66.4	129.2	7.8	.9
144	Sand and gravel -----	E3	18	-	.1	1.7	.1	.1	1.0	3.5	2.5	5.0	1.0	(NA)
1442	Construction sand and gravel -----	E4	17	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
147	Chemical and fertilizer mineral mining -----	-	6	5	.4	11.2	.3	.6	8.3	54.0	54.0	103.0	5.0	BB
1475	Phosphate rock -----	-	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB
1481	Nonmetallic minerals services --	E1	20	4	.2	5.1	.2	.4	4.7	9.7	(D)	16.6	(D)	.4

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries and industry groups are withheld to avoid disclosing data for individual companies. However, for such industries and industry groups with 100 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 2b. **Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1982**

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s. tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures -----	6	(Z)	.5	.6	(X)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of estab- lish- ments	Producing establishments											Nonpro- ducing estab- lish- ments
			Total	Mines only				Mines with preparation plants				Sepsa- rately operated prepara- tion plants	Undistri- buted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods			
	ALL MINERAL INDUSTRIES													
	Establishments.....number...	191	176	25	16	7	2	35	7	27	1	1	115	15
	Employees1,000...	3.1	3.0	.1	(D)	.1	(D)	2.0	(D)	(D)	(D)	(D)	(D)	.1
	Value added in mining mil. dol...	199.5	210.0	2.8	(D)	1.2	(D)	167.4	(D)	(D)	(D)	(D)	(D)	-10.5
10	METAL MINING													
	Establishments.....number...	66	60	15	14	1	-	10	7	3	-	1	34	6
	Employees1,000...	1.9	(D)	(D)	(Z)	(D)	-	1.4	(D)	(D)	-	(D)	.3	(D)
	Value added in mining mil. dol...	116.1	(D)	(D)	.8	(D)	-	108.9	(D)	(D)	-	(D)	10.4	(D)
101	Iron ores													
	Establishments.....number...	1	1	-	-	-	-	1	-	1	-	-	-	-
	Employees1,000...	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	-	-
	Value added in mining mil. dol...	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	-	-
102	Copper ores													
	Establishments.....number...	1	1	1	-	1	-	-	-	-	-	-	-	-
	Employees1,000...	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
	Value added in mining mil. dol...	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
103	Lead and zinc ores													
	Establishments.....number...	10	7	6	6	-	-	-	-	-	-	-	1	3
	Employees1,000...	(D)	(D)	(D)	(D)	-	-	-	-	-	-	-	(D)	(D)
	Value added in mining mil. dol...	(D)	(D)	(D)	(D)	-	-	-	-	-	-	-	-	(D)
104	Gold and silver ores													
	Establishments.....number...	24	21	7	7	-	-	9	7	2	-	-	5	3
	Employees1,000...	1.5	(D)	(Z)	(Z)	-	-	(D)	(D)	(D)	-	-	.1	(D)
	Value added in mining mil. dol...	108.7	(D)	.1	.1	-	-	(D)	(D)	(D)	-	-	.2	(D)
108	Metal mining services													
	Establishments.....number...	14	14	-	-	-	-	-	-	-	-	-	14	-
	Employees1,000...	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
	Value added in mining mil. dol...	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
109	Miscellaneous metal ores													
	Establishments.....number...	16	16	1	1	-	-	-	-	-	-	1	14	-
	Employees1,000...	(D)	(D)	(D)	(D)	-	-	-	-	-	-	(D)	(D)	-
	Value added in mining mil. dol...	(D)	(D)	(D)	(D)	-	-	-	-	-	-	(D)	(D)	-
12	BITUMINOUS COAL AND LIGNITE MINING													
	Establishments.....number...	2	2	2	2	-	-	-	-	-	-	-	-	-
	Employees1,000...	(D)	(D)	(D)	(D)	-	-	-	-	-	-	-	-	-
	Value added in mining mil. dol...	(D)	(D)	(D)	(D)	-	-	-	-	-	-	-	-	-
121	Bituminous coal and lignite mining													
	Establishments.....number...	2	2	2	2	-	-	-	-	-	-	-	-	-
	Employees1,000...	(D)	(D)	(D)	(D)	-	-	-	-	-	-	-	-	-
	Value added in mining mil. dol...	(D)	(D)	(D)	(D)	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 3. **Selected Statistics by Type of Operation and Industry Group for the State: 1982—**
Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of estab- lishments	Producing establishments										Nonpro- ducing estab- lishments	
			Total	Mines only				Mines with preparation plants				Separ- ately operated preparation plants		Undistri- buted ¹
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods			
13	OIL AND GAS EXTRACTION													
	Establishments.....number..	65	56	2	-	-	2	-	-	-	-	-	54	9
	Employees.....1,000..	(D)	(D)	(D)	-	-	(D)	-	-	-	-	-	(D)	(D)
	Value added in mining.....mil. dol..	(D)	(D)	(D)	-	-	(D)	-	-	-	-	-	(D)	(D)
131	Crude petroleum and natural gas													
	Establishments.....number..	11	2	2	-	-	2	-	-	-	-	-	-	9
	Employees.....1,000..	(D)	(D)	(D)	-	-	(D)	-	-	-	-	-	-	(D)
	Value added in mining.....mil. dol..	(D)	(D)	(D)	-	-	(D)	-	-	-	-	-	-	(D)
138	Oil and gas field services													
	Establishments.....number..	54	54	-	-	-	-	-	-	-	-	-	54	-
	Employees.....1,000..	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
	Value added in mining.....mil. dol..	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments.....number..	58	58	6	-	6	-	25	-	24	1	-	27	-
	Employees.....1,000..	.9	.9	(D)	-	(D)	-	.6	-	(D)	(D)	-	(D)	-
	Value added in mining.....mil. dol..	70.6	70.6	(D)	-	(D)	-	58.6	-	(D)	(D)	-	(D)	-
142	Crushed and broken stone, including riprap													
	Establishments.....number..	5	5	-	-	-	-	5	-	5	-	-	-	-
	Employees.....1,000..	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	-	-
	Value added in mining.....mil. dol..	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	-	-
144	Sand and gravel													
	Establishments.....number..	18	18	1	-	1	-	10	-	10	-	-	7	-
	Employees.....1,000..	.1	.1	(D)	-	(D)	-	.1	-	.1	-	-	(D)	-
	Value added in mining.....mil. dol..	3.5	3.5	(D)	-	(D)	-	2.2	-	2.2	-	-	(D)	-
145	Clay, ceramic, and refractory minerals													
	Establishments.....number..	2	2	2	-	2	-	-	-	-	-	-	-	-
	Employees.....1,000..	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
	Value added in mining.....mil. dol..	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
147	Chemical and fertilizer mineral mining													
	Establishments.....number..	6	6	2	-	2	-	4	-	4	-	-	-	-
	Employees.....1,000..	.4	.4	(D)	-	(D)	-	(D)	-	(D)	-	-	-	-
	Value added in mining.....mil. dol..	54.0	54.0	(D)	-	(D)	-	(D)	-	(D)	-	-	-	-
148	Nonmetallic minerals services													
	Establishments.....number..	20	20	-	-	-	-	-	-	-	-	-	20	-
	Employees.....1,000..	.2	.2	-	-	-	-	-	-	-	-	-	.2	-
	Value added in mining.....mil. dol..	9.7	9.7	-	-	-	-	-	-	-	-	-	9.7	-
149	Miscellaneous nonmetallic minerals													
	Establishments.....number..	7	7	1	-	1	-	6	-	5	1	-	-	-
	Employees.....1,000..	.1	.1	(D)	-	(D)	-	(D)	-	(D)	(D)	-	-	-
	Value added in mining.....mil. dol..	2.6	2.6	(D)	-	(D)	-	(D)	-	(D)	(D)	-	-	-

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4a. Summary Statistics for the State: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Item	1982	Item	1982
Establishments during year ----- number	191	Cost of supplies ----- mil. dol..	135.8
With 0 to 19 employees ----- do..	161	Supplies used, minerals received, and purchased machinery installed ----- do..	67.0
With 20 to 99 employees ----- do..	21	Resales ----- do..	(D)
With 100 employees or more ----- do..	9	Purchased fuels consumed ----- do..	12.0
All employees:		Purchased electric energy:	
Average for year ----- 1,000	3.1	Quantity ----- mil. kWh..	273.9
Payroll for year ----- mil. dol..	86.6	Cost ----- mil. dol..	8.3
		Electric energy generated less sold ----- mil. kWh..	1.6
		Contract work ----- mil. dol..	(D)
Production, development, and exploration workers:		Cost of purchased communication services ----- do..	.5
Average for year ----- 1,000	2.4	Value of shipments and receipts ----- do..	303.7
March ----- do..	2.9	Value of resales ----- do..	(D)
April ----- do..	2.8		
May ----- do..	2.0	Capital expenditures during year (except land and mineral rights) ----- do..	31.6
June ----- do..	1.9	New capital expenditures during year ----- do..	14.0
July ----- do..	5.0	Buildings and other structures, except land ----- do..	2.0
August ----- do..	1.4	Machinery and equipment ----- do..	12.1
September ----- do..	1.3		
October to December ----- do..	1.2	Used capital expenditures during year ----- do..	2.0
	1.1	Buildings and other structures, except land ----- do..	(Z)
Hours ----- millions..		Machinery and equipment ----- do..	1.9
January to March ----- do..	5.0	Mineral exploration and development ¹ ----- do..	15.6
April to June ----- do..	1.4		
July to September ----- do..	1.3	Rental payments during year ----- do..	2.5
October to December ----- do..	1.2	Buildings and other structures, except land ----- do..	.4
	1.1	Machinery and equipment ----- do..	2.1
Wages ----- mil. dol..	67.1	Expensed mineral exploration, development, land, and rights ^{1 2} ----- do..	20.3
Supplemental labor costs not included in payroll ----- do..	21.0		
Legally required expenditures, including Social Security contributions ----- do..	8.6		
Payments for voluntary programs ----- do..	12.5		
Value added by mining ----- do..	199.5		

¹Excludes data for mining service industries and natural gas liquids industry where data were not collected.²Excludes data for mineral land and rights for the crude petroleum and natural gas industry where data were not collected.

Table 4b. Inventories for the State: End of 1981 and 1982

[Million dollars. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Item	End of 1981	End of 1982
Total inventories ¹ -----	77.8	73.4
Detail by method of valuation:		
Subject to LIFO costing ² -----	(D)	(D)
LIFO reserve -----	(D)	(D)
LIFO value -----	(D)	(D)
Not subject to LIFO costing -----	60.9	55.8
Valuation method not reported ³ -----	(D)	(D)
Amount subject to LIFO reported without associated reserve and value ⁴ -----	-	-

¹Beginning in the 1982 economic censuses, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.²Only includes data reported by respondents who (a) indicated amount of inventories subject to LIFO cost, and (b) provided sufficient information to determine associated LIFO reserve and value figures.³Includes data estimated for nonresponse and nonmail administrative records and data reported by respondents who provided total inventory figures without other information.⁴Includes data reported by respondents who indicated their inventories were subject to LIFO cost but did not provide associated LIFO reserve and value figures.

Table 5. Industry Group Statistics for Counties: 1982 and 1977

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group ¹	1982											1977		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees (1,000)	Value added by mining (million dollars)	
		E ²	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	Idaho -----	-	191	30	3.1	86.6	2.4	5.0	67.1	199.5	135.8	303.7	31.6	3.3	144.1
	Bonneville County -----	E1	11	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction -----	-	8	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	-	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Caribou County -----	-	17	7	.6	15.5	.5	.9	11.8	62.4	63.6	119.2	6.7	.7	38.9
10	Metal mining -----	-	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
109	Miscellaneous metal ores -----	-	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels -----	-	5	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
147	Chemical and fertilizer mineral mining -----	-	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
148	Nonmetallic minerals services -----	-	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group ¹	1982										1977		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)
		E ²	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
	Idaho—Con.													
	Owyhee County	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
10	Metal mining	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
104	Gold and silver ores	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Shoshone County	-	30	12	1.6	53.2	1.2	2.6	40.3	102.4	(D)	119.1	(D)	74.5
10	Metal mining	-	26	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
104	Gold and silver ores	-	13	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	54.7
108	Metal mining services	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

¹County data shown in this table are limited to counties or industry groups with a value of shipments and receipts greater than \$5 million.²Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.³Some statistics for counties or industry groups with a value of shipments and receipts greater than \$5 million are withheld to avoid disclosing data for individual companies. However, for such counties and industry groups, number of establishments is shown and employment size range is indicated by one of the following symbols: ZZ—less than 100 employees; AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 6. Number of Mineral Establishments in Major Groups by Employment Size Class for Counties: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Idaho	191	66	-	2	65	58	Idaho—Con.						
0 to 4 employees	124	42	-	1	50	31	Bonneville County—Con.						
5 to 9 employees	18	5	-	1	6	6	20 to 99 employees	3	-	-	-	3	-
10 to 19 employees	19	5	-	-	3	11	Butte County	3	-	-	-	2	1
20 to 49 employees	17	4	-	-	6	7	0 to 19 employees	3	-	-	-	2	1
50 to 99 employees	4	3	-	-	-	1	Camas County	1	-	-	-	-	1
100 to 249 employees	7	5	-	-	-	2	0 to 19 employees	1	-	-	-	-	1
250 to 499 employees	2	2	-	-	-	-	Canyon County	5	3	-	-	1	1
Ada County	25	9	-	-	12	4	0 to 19 employees	5	3	-	-	1	1
0 to 19 employees	25	9	-	-	12	4	Caribou County	17	1	-	-	11	5
Adams County	1	-	-	-	-	1	0 to 19 employees	10	-	-	-	10	-
0 to 19 employees	1	-	-	-	-	1	20 to 99 employees	5	1	-	-	1	3
Bannock County	7	3	-	-	1	3	100 to 249 employees	2	-	-	-	-	2
0 to 19 employees	7	3	-	-	1	3	Cassia County	2	1	-	-	-	1
Bear Lake County	4	-	-	-	3	1	0 to 19 employees	2	1	-	-	-	1
0 to 19 employees	4	-	-	-	3	1	Clark County	5	-	-	-	4	1
Benewah County	2	-	-	-	-	2	20 to 99 employees	4	-	-	-	3	1
0 to 19 employees	1	-	-	-	-	1	0 to 19 employees	1	-	-	-	1	-
20 to 99 employees	1	-	-	-	-	1	Clearwater County	1	-	-	-	-	1
Bingham County	3	-	-	-	2	1	0 to 19 employees	1	-	-	-	-	1
0 to 19 employees	3	-	-	-	2	1	Custer County	6	2	-	-	3	1
Blaine County	3	-	-	-	-	3	0 to 19 employees	5	1	-	-	3	1
0 to 19 employees	2	-	-	-	-	2	20 to 99 employees	1	1	-	-	-	-
20 to 99 employees	1	-	-	-	-	1	Elmore County	4	1	-	-	1	2
Boise County	3	2	-	-	1	-	0 to 19 employees	4	1	-	-	1	2
0 to 19 employees	2	1	-	-	1	-	Franklin County	1	-	-	-	-	1
20 to 99 employees	1	1	-	-	-	-	0 to 19 employees	1	-	-	-	-	1
Bonner County	3	1	-	-	2	-	Fremont County	2	-	-	-	1	1
0 to 19 employees	2	1	-	-	1	-	0 to 19 employees	2	-	-	-	1	1
20 to 99 employees	1	-	-	-	-	-							
Bonneville County	11	1	-	1	8	1							
0 to 19 employees	8	1	-	1	5	1							

Table 6. Number of Mineral Establishments in Major Groups by Employment Size Class for Counties: 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Idaho—Con.							Idaho—Con.						
Gem County	1	-	-	-	-	1	Nez Perce County	3	-	-	-	-	3
0 to 19 employees.....	1	-	-	-	-	1	0 to 19 employees.....	3	-	-	-	-	3
Gooding County	2	-	-	-	-	2	Oneida County	2	-	-	-	-	2
0 to 19 employees.....	2	-	-	-	-	2	0 to 19 employees.....	2	-	-	-	-	2
Idaho County	4	1	-	1	-	2	Owyhee County	2	2	-	-	-	-
0 to 19 employees.....	4	1	-	1	-	2	0 to 19 employees.....	1	1	-	-	-	-
Jefferson County	2	-	-	-	2	-	100 to 249 employees	1	1	-	-	-	-
0 to 19 employees.....	2	-	-	-	2	-	Payette County	1	-	-	-	1	-
Jerome County	1	1	-	-	-	-	0 to 19 employees.....	1	-	-	-	1	-
0 to 19 employees.....	1	1	-	-	-	-	Power County	1	-	-	-	1	-
Kootenai County	8	4	-	-	-	4	0 to 19 employees.....	1	-	-	-	1	-
0 to 19 employees.....	7	4	-	-	-	3	Shoahone County	30	26	-	-	1	3
20 to 99 employees	1	-	-	-	-	1	0 to 19 employees.....	18	16	-	-	1	1
Latah County	2	-	-	-	-	2	20 to 99 employees	6	4	-	-	-	2
0 to 19 employees.....	2	-	-	-	-	2	100 to 249 employees	4	4	-	-	-	-
Lemhi County	11	6	-	-	4	1	250 employees or more	2	2	-	-	-	-
0 to 19 employees.....	11	6	-	-	4	1	Teton County	1	-	-	-	1	-
Madison County	2	-	-	-	1	1	0 to 19 employees.....	1	-	-	-	1	-
0 to 19 employees.....	2	-	-	-	1	1	Twin Falls County	6	1	-	-	2	3
							0 to 19 employees.....	6	1	-	-	2	3
							Valley County	2	-	-	-	-	2
							0 to 19 employees.....	2	-	-	-	-	2
							Washington County	1	1	-	-	-	-
							0 to 19 employees.....	1	1	-	-	-	-

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SUMMARY OF FINDINGS

The total value of shipments and receipts for the 1,148 establishments classified in mineral industries in Montana amounted to \$2,026 million in 1982, compared to \$713 million in 1977. Value added by mining amounted to \$1,695 million in 1982, and payroll in mining amounted to \$214 million. All dollar figures shown are in current dollars for the years specified and have not been adjusted for changes in price levels. When making

comparisons to prior years, users should take into consideration the inflation that has occurred.

Mineral industries employment in Montana was 8.5 thousand in 1982, an increase of 44 percent over 1977. Oil and gas extraction led all other mineral industries in the State, accounting for 61 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1982 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Kind of operation and year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
Mineral industries:											
1982 ¹	21 148	287	8.5	213.7	6.5	13.5	159.3	1 694.9	756.5	2 026.1	425.2
1977 ¹	366	46	5.9	90.4	4.7	9.2	72.0	560.2	317.8	713.2	164.7
1972 ¹	276	42	5.6	55.9	4.6	9.6	46.2	169.1	157.2	289.2	37.1
1967 ¹	311	38	5.5	39.4	4.5	9.1	31.0	129.2	110.6	199.0	40.9
1963	416	40	7.6	47.1	6.1	12.6	35.4	111.0	145.1	189.5	66.7
1958	440	39	8.4	44.1	5.8	11.0	27.9	115.9	87.8	180.3	23.4
Excluding oil and gas extraction industries:											
1982 ¹	111	21	3.3	91.1	2.5	5.1	66.6	487.4	243.0	633.2	97.3
1977 ¹ ³	105	14	3.6	57.1	2.8	5.6	45.7	231.5	180.0	330.5	81.0
1972 ¹ ³	101	21	4.3	43.1	3.5	7.5	36.6	80.2	123.6	181.6	22.2
1967 ¹ ³	117	16	3.8	27.5	3.2	6.3	21.9	39.4	18.5	92.4	34.5
1963 ³	192	11	5.3	32.9	4.5	8.9	25.6	39.8	97.0	96.9	40.0
1958 ³	221	19	6.3	31.2	4.6	8.5	21.3	46.8	53.2	93.9	6.1

Note: For data prior to 1958, see 1963 Census of Mineral Industries, volume II.

¹Beginning with 1967, data for single-unit establishments without paid employees were excluded from the census.

²Not comparable to prior years. See Introduction for further explanation.

³Includes data for mining operations at manufacturing locations.

Table 2a. Mineral Establishment Statistics by Industry for the State: 1982 and 1977

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and industry	1982											1977	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
	All mineral industries	- 1 148	87	8.5	213.7	6.5	13.5	159.3	1 694.9	756.5	2 026.1	425.2	5.9	560.2
10	Metal mining	- 53	10	1.5	42.1	1.1	2.3	30.8	104.1	113.9	143.8	74.2	EE	(D)
1021	Copper ores	- 1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
104	Gold and silver ores	- 19	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1041	Gold ores	- 14	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1044	Silver ores	- 5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
12	Bituminous coal and lignite mining	- 16	6	1.2	35.8	.9	1.8	25.6	349.1	107.9	440.3	16.7	.9	146.9
121	Bituminous coal and lignite mining	- 16	6	1.2	35.8	.9	1.8	25.6	349.1	107.9	440.3	16.7	.9	146.9
1211	Bituminous coal and lignite	- 11	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
1213	Bituminous coal and lignite mining services	- 5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
13	Oil and gas extraction	E1 1 037	66	5.2	122.7	4.0	8.4	92.7	1 207.5	513.4	1 393.0	327.9	2.3	333.3
1311	Crude petroleum and natural gas	- 451	19	1.4	39.8	.9	1.7	24.5	1 000.4	379.2	1 106.5	273.1	.6	271.1
138	Oil and gas field services	E3 583	47	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	60.2
1381	Drilling oil and gas wells	E2 163	15	1.3	34.5	1.2	2.4	29.6	74.1	67.4	109.8	31.8	.9	29.8
1382	Oil and gas field exploration services	E2 180	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	6.2
1389	Oil and gas field services, n.e.c.	E3 240	18	1.4	29.2	1.0	2.4	22.5	73.0	32.1	90.9	14.2	.6	24.2
14	Nonmetallic minerals, except fuels	E1 42	5	.6	13.2	.5	.9	10.2	34.2	21.2	49.0	6.4	CC	(D)
147	Chemical and fertilizer mineral mining	E2 2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
1475	Phosphate rock	- 1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
149	Miscellaneous nonmetallic minerals	- 10	3	.4	7.3	.3	.6	5.8	22.0	14.7	31.8	5.0	BB	(D)
1496	Talc, soapstone, and pyrophyllite	- 2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
1499	Miscellaneous nonmetallic minerals, n.e.c.	- 8	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries and industry groups are withheld to avoid disclosing data for individual companies. However, for such industries and industry groups with 100 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1982

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s. tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures	7	.1	.6	.7	(X)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of establishments	Producing establishments											Non-producing establishments
			Total	Mines only				Mines with preparation plants				Separately operated preparation plants	Undistributed ¹	
				Total	Under-ground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Under-ground mines	Open pit mines	Combination and other methods			
	ALL MINERAL INDUSTRIES													
	Establishments.....number..	1 148	1 107	432	9	7	416	32	4	28	-	3	640	41
	Employees1,000.....	8.5	8.4	1.6	(D)	(D)	1.3	2.5	.4	2.1	-	(D)	(D)	.1
	Value added in mining mil. dol...	1 694.9	1 669.2	1 005.5	(D)	(D)	998.3	418.5	22.3	396.2	-	(D)	(D)	25.7
10	METAL MINING													
	Establishments.....number..	53	45	4	4	-	-	8	4	4	-	-	33	8
	Employees1,000.....	1.5	(D)	(D)	(D)	-	-	1.3	.4	.9	-	-	(D)	(D)
	Value added in mining mil. dol...	104.1	(D)	(D)	(D)	-	-	71.8	22.3	49.5	-	-	(D)	(D)
102	Copper ores													
	Establishments.....number..	1	1	-	-	-	-	1	-	1	-	-	-	-
	Employees1,000.....	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	-	-
	Value added in mining mil. dol...	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	-	-
103	Lead and zinc ores													
	Establishments.....number..	1	1	1	1	-	-	-	-	-	-	-	-	-
	Employees1,000.....	(Z)	(Z)	(Z)	(Z)	-	-	-	-	-	-	-	-	-
	Value added in mining mil. dol...	(Z)	(Z)	(Z)	(Z)	-	-	-	-	-	-	-	-	-
104	Gold and silver ores													
	Establishments.....number..	19	15	1	1	-	-	6	3	3	-	-	8	4
	Employees1,000.....	(D)	(D)	-	-	-	-	(D)	(D)	(D)	-	-	(D)	(D)
	Value added in mining mil. dol...	(D)	(D)	(Z)	(Z)	-	-	(D)	(D)	(D)	-	-	(D)	(D)
108	Metal mining services													
	Establishments.....number..	11	11	-	-	-	-	-	-	-	-	-	11	-
	Employees1,000.....	.1	.1	-	-	-	-	-	-	-	-	-	.1	-
	Value added in mining mil. dol...	4.6	4.6	-	-	-	-	-	-	-	-	-	4.6	-
109	Miscellaneous metal ores													
	Establishments.....number..	21	17	2	2	-	-	1	1	-	-	-	14	4
	Employees1,000.....	.1	(D)	(D)	(D)	-	-	(D)	(D)	-	-	-	(Z)	(D)
	Value added in mining mil. dol...	3.1	(D)	(D)	(D)	-	-	(D)	(D)	-	-	-	1.8	(D)

See footnotes at end of table.

Table 3. **Selected Statistics by Type of Operation and Industry Group for the State: 1982—**
Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of estab- lish- ments	Producing establishments											Nonpro- ducing estab- lish- ments
			Total	Mines only				Mines with preparation plants				Sepsa- rately operated prepara- tion plants	Undis- tributed ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods			
12	BITUMINOUS COAL AND LIGNITE MINING													
	Establishments..... number..	16	15	4	4	-	-	6	-	6	-	-	5	1
	Employees1,000..	1.2	1.2	(D)	(D)	-	-	.9	-	.9	-	-	(D)	(Z)
	Value added in mining mil. dol..	349.1	349.2	(D)	(D)	-	-	321.5	-	321.5	-	-	(D)	(Z)
121	Bituminous coal and lignite mining													
	Establishments..... number..	16	15	4	4	-	-	6	-	6	-	-	5	1
	Employees1,000..	1.2	1.2	(D)	(D)	-	-	.9	-	.9	-	-	(D)	(Z)
	Value added in mining mil. dol..	349.1	349.2	(D)	(D)	-	-	321.5	-	321.5	-	-	(D)	(Z)
13	OIL AND GAS EXTRACTION													
	Establishments..... number..	1 037	1 006	416	-	-	416	-	-	-	-	3	587	31
	Employees1,000..	5.2	5.1	1.3	-	-	1.3	-	-	-	-	(D)	(D)	(Z)
	Value added in mining mil. dol..	1 207.5	1 205.4	998.3	-	-	998.3	-	-	-	-	(D)	(D)	2.1
131	Crude petroleum and natural gas													
	Establishments..... number..	451	420	416	-	-	416	-	-	-	-	-	4	31
	Employees1,000..	1.4	1.4	1.3	-	-	1.3	-	-	-	-	-	.1	(Z)
	Value added in mining mil. dol..	1 000.4	998.3	998.3	-	-	998.3	-	-	-	-	-	-	2.1
132	Natural gas liquids													
	Establishments..... number..	3	3	-	-	-	-	-	-	-	-	3	-	-
	Employees1,000..	(D)	(D)	-	-	-	-	-	-	-	-	(D)	-	-
	Value added in mining mil. dol..	(D)	(D)	-	-	-	-	-	-	-	-	(D)	-	-
138	Oil and gas field services													
	Establishments..... number..	583	583	-	-	-	-	-	-	-	-	-	583	-
	Employees1,000..	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
	Value added in mining mil. dol..	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments..... number..	42	41	8	1	7	-	18	-	18	-	-	15	1
	Employees1,000..	.6	(D)	(D)	(D)	(D)	-	.4	-	.4	-	-	(Z)	(D)
	Value added in mining mil. dol..	34.2	(D)	(D)	(D)	(D)	-	25.2	-	25.2	-	-	2.3	(D)
141	Dimension stone													
	Establishments..... number..	3	3	3	-	3	-	-	-	-	-	-	-	-
	Employees1,000..	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
	Value added in mining mil. dol..	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
142	Crushed and broken stone, including riprap													
	Establishments..... number..	4	4	-	-	-	-	4	-	4	-	-	-	-
	Employees1,000..	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	-	-
	Value added in mining mil. dol..	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	-	-
144	Sand and gravel													
	Establishments..... number..	11	10	-	-	-	-	4	-	4	-	-	6	1
	Employees1,000..	.1	(D)	-	-	-	-	(D)	-	(D)	-	-	(D)	(D)
	Value added in mining mil. dol..	4.6	(D)	-	-	-	-	(D)	-	(D)	-	-	(D)	(D)

See footnotes at end of table.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1982—
Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of estab- lish- ments	Producing establishments											Nonpro- ducing estab- lish- ments
			Total	Mines only				Mines with preparation plants				Sepsa- rately operated prepara- tion plants	Undistri- buted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods			
14	NONMETALLIC MINERALS, EXCEPT FUELS—Con.													
145	Clay, ceramic, and refractory minerals													
	Establishments.....number...	3	3	2	-	2	-	1	-	1	-	-	-	-
	Employees.....1,000...	(D)	(D)	(D)	-	(D)	-	(D)	-	(D)	-	-	-	-
	Value added in mining mil. dol...	(D)	(D)	(D)	-	(D)	-	(D)	-	(D)	-	-	-	-
147	Chemical and fertilizer mineral mining													
	Establishments.....number...	2	2	2	1	1	-	-	-	-	-	-	-	-
	Employees.....1,000...	(D)	(D)	(D)	(D)	(D)	-	-	-	-	-	-	-	-
	Value added in mining mil. dol...	(D)	(D)	(D)	(D)	(D)	-	-	-	-	-	-	-	-
148	Nonmetallic minerals services													
	Establishments.....number...	9	9	-	-	-	-	-	-	-	-	-	9	-
	Employees.....1,000...	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
	Value added in mining mil. dol...	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
149	Miscellaneous nonmetallic minerals													
	Establishments.....number...	10	10	1	-	1	-	9	-	9	-	-	-	-
	Employees.....1,000...	.4	.4	(D)	-	(D)	-	(D)	-	(D)	-	-	-	-
	Value added in mining mil. dol...	22.0	22.0	(D)	-	(D)	-	(D)	-	(D)	-	-	-	-

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4a. Summary Statistics for the State: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Item	1982	Item	1982
Establishments during year.....number...	1 148	Cost of supplies.....mil. dol...	756.5
With 0 to 19 employees.....do...	1 061	Supplies used, minerals received, and purchased machinery installed.....do...	403.1
With 20 to 99 employees.....do...	77	Resales.....do...	(D)
With 100 employees or more.....do...	10	Purchased fuels consumed.....do...	36.9
All employees:		Purchased electric energy:	
Average for year.....1,000...	8.5	Quantity.....mil. kWh...	1 171.9
Payroll for year.....mil. dol...	213.7	Cost.....mil. dol...	29.0
Production, development, and exploration workers:		Electric energy generated less sold.....mil. kWh...	(D)
Average for year.....1,000...	6.5	Contract work.....mil. dol...	(D)
March.....do...	6.8	Cost of purchased communication services.....do...	1.9
May.....do...	6.8	Value of shipments and receipts.....do...	2 026.1
August.....do...	6.5	Value of resales.....do...	(D)
November.....do...	6.2	Capital expenditures during year (except land and mineral rights).....do...	425.2
Hours.....millions...	13.5	New capital expenditures during year.....do...	171.4
January to March.....do...	3.4	Buildings and other structures, except land.....do...	32.3
April to June.....do...	3.4	Machinery and equipment.....do...	139.0
July to September.....do...	3.3	Used capital expenditures during year.....do...	4.4
October to December.....do...	3.2	Buildings and other structures, except land.....do...	.2
Wages.....mil. dol...	159.3	Machinery and equipment.....do...	4.2
Supplemental labor costs not included in payroll.....do...	50.6	Mineral exploration and development ¹do...	249.4
Legally required expenditures, including Social Security contributions.....do...	22.8	Rental payments during year.....do...	18.2
Payments for voluntary programs.....do...	27.8	Buildings and other structures, except land.....do...	1.6
Value added by mining.....do...	1 694.9	Machinery and equipment.....do...	16.7
		Expensed mineral exploration, development, land, and rights ^{1 2}do...	146.4

¹Excludes data for mining service industries and natural gas liquids industry where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industry where data were not collected.

Table 4b. Inventories for the State: End of 1981 and 1982

[Million dollars. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Item	End of 1981	End of 1982
Total inventories¹	117.4	112.3
Detail by method of valuation:		
Subject to LIFO costing ²	(D)	(D)
LIFO reserve	(D)	(D)
LIFO value	(D)	(D)
Not subject to LIFO costing	74.9	70.5
Valuation method not reported ³	(Z)	(D)
Amount subject to LIFO reported without associated reserve and value ⁴	(Z)	-

¹Beginning in the 1982 economic censuses, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

²Only includes data reported by respondents who (a) indicated amount of inventories subject to LIFO cost, and (b) provided sufficient information to determine associated LIFO reserve and value figures.

³Includes data estimated for nonresponse and nonmail administrative records and data reported by respondents who provided total inventory figures without other information.

⁴Includes data reported by respondents who indicated their inventories were subject to LIFO cost but did not provide associated LIFO reserve and value figures.

Table 5. Industry Group Statistics for Counties: 1982 and 1977

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group ¹	1982											1977		
		E ²	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees (1,000)	Value added by mining (million dollars)
			Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
	Montana-----	-	1 148	87	8.5	213.7	6.5	13.5	159.3	1 694.9	756.5	2 026.1	425.2	5.9	560.2
	Beaverhead County-----	-	12	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels-----	-	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
149	Miscellaneous nonmetallic minerals-----	-	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Big Horn County-----	-	20	4	.8	25.4	.6	1.0	16.6	245.0	76.0	306.7	14.2	.5	92.4
12	Bituminous coal and lignite mining-----	-	4	3	.8	24.7	.5	.9	16.0	244.1	(D)	302.1	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining-----	-	4	3	.8	24.7	.5	.9	16.0	244.1	(D)	302.1	(D)	(NA)	(NA)
	Blaine County-----	-	12	-	.1	1.1	(Z)	.1	.7	13.7	(D)	16.4	(D)	(NA)	(NA)
13	Oil and gas extraction-----	-	11	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas-----	-	6	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Carbon County-----	-	22	1	.1	1.8	.1	.2	1.4	7.2	28.2	32.9	2.6	(Z)	7.6
13	Oil and gas extraction-----	-	21	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas-----	-	7	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services-----	E1	14	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Chouteau County-----	-	4	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction-----	-	4	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas-----	-	2	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Custer County-----	-	6	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction-----	-	6	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services-----	-	3	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Daniels County-----	-	16	-	(Z)	1.3	(Z)	.1	1.0	7.0	5.1	5.6	6.5	(NA)	(NA)
13	Oil and gas extraction-----	-	16	-	(Z)	1.3	(Z)	.1	1.0	7.0	5.1	5.6	6.5	(NA)	(NA)
	Dawson County-----	E5	64	3	.4	8.8	.3	.7	7.6	33.0	17.9	36.9	13.9	.2	14.2
13	Oil and gas extraction-----	E5	63	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas-----	-	12	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services-----	E7	51	2	.3	7.0	.3	.6	6.0	17.1	10.4	22.7	4.8	.1	9.6
	Fallon County-----	-	38	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction-----	-	38	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas-----	-	13	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services-----	E1	25	2	.1	3.0	.1	.3	2.6	7.0	3.4	8.7	1.6	(NA)	(NA)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group ¹	1982											1977		
		E ²	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)
			Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
13	Montana—Con. Glacier County -----	E2	49	6	.4	8.3	.3	.6	6.6	71.3	16.4	81.7	5.9	.5	40.8
131	Oil and gas extraction -----	E2	49	6	.4	8.3	.3	.6	6.6	71.3	16.4	81.7	5.9	(NA)	(NA)
138	Crude petroleum and natural gas -----	E1	25	4	.2	5.0	.1	.2	3.7	63.3	13.2	71.5	5.0	(NA)	(NA)
138	Oil and gas field services -----	E5	24	2	.2	3.3	.2	.3	2.9	8.0	3.2	10.2	1.0	.4	18.8
10	Granite County -----	E1	7	2	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
104	Metal mining -----	E1	5	2	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
104	Gold and silver ores -----	-	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Hill County -----	E1	19	2	.1	2.3	.1	.2	1.7	12.6	4.3	15.4	1.5	.1	5.0
131	Oil and gas extraction -----	E1	18	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	5.0
138	Crude petroleum and natural gas -----	-	10	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	E2	8	2	.1	2.0	.1	.2	1.5	5.1	3.5	7.2	1.3	.1	3.9
13	Lewis and Clark County ..	E2	19	2	.1	1.9	.1	.2	1.5	15.2	8.8	9.0	15.0	(NA)	(NA)
138	Oil and gas extraction -----	E1	13	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	-	7	1	.1	1.4	(Z)	.1	1.2	4.2	2.1	5.5	.8	(NA)	(NA)
13	Liberty County -----	-	13	-	(Z)	1.1	(Z)	(Z)	.5	17.4	(D)	19.4	(D)	(NA)	(NA)
131	Oil and gas extraction -----	-	13	-	(Z)	1.1	(Z)	(Z)	.5	17.4	(D)	19.4	(D)	(NA)	(NA)
131	Crude petroleum and natural gas -----	-	10	-	(Z)	.9	(Z)	(Z)	.4	17.1	(D)	19.0	(D)	(NA)	(NA)
10	Lincoln County -----	-	7	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
104	Metal mining -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
104	Gold and silver ores -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
149	Miscellaneous nonmetallic minerals -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Meagher County -----	-	8	2	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas extraction -----	-	7	2	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	-	4	2	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Musselshell County -----	E3	38	1	.2	4.0	.1	.2	2.6	23.9	17.1	33.4	7.6	.1	12.9
131	Oil and gas extraction -----	E3	36	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Crude petroleum and natural gas -----	E3	16	-	(Z)	1.5	(Z)	.1	.7	18.9	12.1	25.8	5.1	(Z)	9.2
138	Oil and gas field services -----	E4	20	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
10	Phillips County -----	-	18	4	.2	4.2	.1	.3	3.2	38.2	(D)	36.4	(D)	(NA)	(NA)
104	Metal mining -----	E1	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
104	Gold and silver ores -----	E1	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction -----	-	12	-	.1	1.1	(Z)	.1	.8	6.4	2.5	7.0	1.9	(NA)	(NA)
131	Crude petroleum and natural gas -----	-	8	-	(Z)	.4	(Z)	(Z)	.3	5.6	.8	5.0	1.3	(NA)	(NA)
13	Pondera County -----	E2	23	1	.1	2.6	.1	.1	1.7	19.4	6.7	21.0	5.1	(NA)	(NA)
138	Oil and gas extraction -----	E2	23	1	.1	2.6	.1	.1	1.7	19.4	6.7	21.0	5.1	(NA)	(NA)
131	Crude petroleum and natural gas -----	E2	14	-	(Z)	1.3	(Z)	(Z)	.6	16.8	5.7	17.7	4.8	(NA)	(NA)
13	Powder River County ----	-	16	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Oil and gas extraction -----	-	15	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas -----	-	8	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
14	Powell County -----	-	10	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
147	Nonmetallic minerals, except fuels -----	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
147	Chemical and fertilizer mineral mining -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Prairie County -----	-	8	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Oil and gas extraction -----	-	8	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas -----	-	3	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group ¹	1982											1977		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees (1,000)	Value added by mining (million dollars)	
		Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)							
		E ²													
	Montana—Con.														
	Richland County	E1	144	17	1.0	23.0	.9	1.9	20.1	184.7	87.0	210.1	61.6	.3	34.1
13	Oil and gas extraction	E1	143	17	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas	-	39	3	.2	6.0	.2	.3	5.3	141.5	52.6	141.4	52.7	(Z)	25.4
132	Natural gas liquids	-	1	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services	E3	103	14	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Roosevelt County	E1	77	4	.3	8.1	.2	.5	5.5	73.8	35.7	80.0	29.5	.1	9.9
13	Oil and gas extraction	E1	77	4	.3	8.1	.2	.5	5.5	73.8	35.7	80.0	29.5	.1	9.9
131	Crude petroleum and natural gas	E1	30	-	.1	2.2	(Z)	.1	1.1	57.9	25.9	58.7	25.1	(Z)	8.4
138	Oil and gas field services	E2	47	4	.3	5.9	.2	.4	4.5	15.8	9.9	21.3	4.4	(NA)	(NA)
	Rosebud County	-	36	4	.6	14.5	.4	1.0	10.7	143.6	57.7	182.0	19.3	.4	66.7
12	Bituminous coal and lignite mining	-	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	52.4
121	Bituminous coal and lignite mining	-	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	52.4
13	Oil and gas extraction	-	30	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas	-	21	1	.1	3.1	(Z)	.1	.8	39.1	14.3	42.8	10.6	(Z)	12.3
	Sheridan County	-	70	4	.3	8.0	.2	.4	5.8	107.4	46.9	132.2	22.0	.1	16.7
13	Oil and gas extraction	-	69	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas	-	35	1	.1	3.1	(D)	.1	1.8	97.5	39.3	119.0	17.9	(Z)	14.3
138	Oil and gas field services	E1	34	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Silver Bow County	-	9	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
10	Metal mining	-	7	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
102	Copper ores	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Teton County	E4	22	-	.1	1.9	.1	.1	1.2	14.5	(D)	13.6	(D)	(NA)	(NA)
13	Oil and gas extraction	E4	21	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas	E6	11	-	(Z)	.7	(Z)	(Z)	.3	11.0	(D)	8.7	(D)	(NA)	(NA)
	Toole County	E4	72	10	.8	16.2	.6	1.2	12.2	77.0	50.2	116.2	10.9	.2	25.5
13	Oil and gas extraction	E4	72	10	.8	16.2	.6	1.2	12.2	77.0	50.2	116.2	10.9	.2	25.5
131	Crude petroleum and natural gas	E4	48	4	.3	5.9	.2	.3	3.8	51.6	38.7	84.5	5.9	.1	23.0
138	Oil and gas field services	E6	24	6	.5	10.3	.4	.9	8.5	25.4	11.4	31.8	5.1	(NA)	(NA)
	Valley County	-	27	1	.1	2.8	.1	.1	2.1	21.2	18.9	13.5	26.6	(NA)	(NA)
13	Oil and gas extraction	-	26	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas	-	10	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services	-	16	1	.1	2.3	.1	.1	1.9	4.9	3.6	6.9	1.6	(NA)	(NA)
	Wibaux County	-	18	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction	-	18	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas	-	7	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Yellowstone County	E9	75	4	.3	7.8	.2	.5	5.2	22.0	10.6	30.5	2.1	.1	8.8
13	Oil and gas extraction	E9	72	4	.3	7.4	.2	.4	4.8	21.0	(D)	29.3	(D)	.1	8.0
131	Crude petroleum and natural gas	E9	27	2	.1	2.9	(Z)	.1	1.1	9.4	(D)	14.5	(D)	(NA)	(NA)
138	Oil and gas field services	E9	45	2	.2	4.5	.2	.4	3.7	11.7	5.1	14.8	1.9	(NA)	(NA)

¹County data shown in this table are limited to counties or industry groups with a value of shipments and receipts greater than \$5 million.²Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.³Some statistics for counties or industry groups with a value of shipments and receipts greater than \$5 million are withheld to avoid disclosing data for individual companies. However, for such counties and industry groups, number of establishments is shown and employment size range is indicated by one of the following symbols: ZZ—less than 100 employees; AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 6. Number of Mineral Establishments in Major Groups by Employment Size Class for Counties: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthra-cite mining (SIC 11)	Bitumi-nous coal and lignite mining (SIC 12)	Oil and gas ex-traction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthra-cite mining (SIC 11)	Bitumi-nous coal and lignite mining (SIC 12)	Oil and gas ex-traction (SIC 13)	Non-metallic minerals mining (SIC 14)
Montana	1 148	53	-	16	1 037	42	Montana—Con.						
0 to 4 employees.....	843	32	-	7	778	26	Jefferson County	8	4	-	-	2	2
5 to 9 employees.....	120	8	-	1	105	6	0 to 19 employees.....	7	3	-	-	2	2
10 to 19 employees.....	98	3	-	2	88	5	20 to 99 employees.....	1	1	-	-	-	-
20 to 49 employees.....	65	7	-	1	56	1	Lake County	2	-	-	-	2	-
50 to 99 employees.....	12	1	-	1	8	2	0 to 19 employees.....	2	-	-	-	2	-
100 to 249 employees.....	3	-	-	2	2	2	Lewis and Clark County	19	4	-	-	13	2
250 to 499 employees.....	1	1	-	-	-	-	0 to 19 employees.....	17	3	-	-	12	2
500 to 999 employees.....	1	1	-	-	-	-	20 to 99 employees.....	2	1	-	-	1	-
Beaverhead County	12	2	-	-	9	1	Liberty County	13	-	-	-	13	-
0 to 19 employees.....	11	2	-	-	9	-	0 to 19 employees.....	13	-	-	-	13	-
20 to 99 employees.....	1	-	-	-	-	1	Lincoln County	7	2	-	-	4	1
Big Horn County	20	-	-	4	16	-	0 to 19 employees.....	5	1	-	-	4	-
0 to 19 employees.....	16	-	-	1	15	-	100 to 249 employees.....	1	-	-	-	-	1
20 to 99 employees.....	2	-	-	1	1	-	250 employees or more.....	1	1	-	-	-	-
100 to 249 employees.....	1	-	-	1	-	-	McCone County	20	-	-	-	20	-
250 employees or more.....	1	-	-	1	-	-	0 to 19 employees.....	20	-	-	-	20	-
Blaine County	12	1	-	-	11	-	Madison County	14	6	-	1	5	2
0 to 19 employees.....	12	1	-	-	11	-	0 to 19 employees.....	13	6	-	1	5	1
Broadwater County	6	3	-	-	2	1	20 to 99 employees.....	1	-	-	-	-	1
0 to 19 employees.....	6	3	-	-	2	1	Meagher County	8	1	-	-	7	-
Carbon County	22	-	-	-	21	1	0 to 19 employees.....	6	1	-	-	5	-
0 to 19 employees.....	21	-	-	-	20	1	20 to 99 employees.....	2	-	-	-	2	-
20 to 99 employees.....	1	-	-	-	1	-	Missoula County	7	3	-	-	1	3
Carter County	7	-	-	-	6	1	0 to 19 employees.....	7	3	-	-	1	3
0 to 19 employees.....	7	-	-	-	6	1	Musselshell County	38	-	-	2	36	-
Cascade County	9	2	-	-	6	1	0 to 19 employees.....	37	-	-	2	35	-
0 to 19 employees.....	9	2	-	-	6	1	20 to 99 employees.....	1	-	-	-	1	-
Chouteau County	4	-	-	-	4	-	Park County	15	-	-	-	14	1
0 to 19 employees.....	3	-	-	-	3	-	0 to 19 employees.....	15	-	-	-	14	1
20 to 99 employees.....	1	-	-	-	1	-	Petroleum County	12	-	-	-	12	-
Custer County	6	-	-	-	6	-	0 to 19 employees.....	12	-	-	-	12	-
0 to 19 employees.....	5	-	-	-	5	-	Phillips County	18	5	-	-	12	1
20 to 99 employees.....	1	-	-	-	1	-	0 to 19 employees.....	14	2	-	-	12	-
Daniels County	16	-	-	-	16	-	20 to 99 employees.....	4	3	-	-	-	1
0 to 19 employees.....	16	-	-	-	16	-	Pondera County	23	-	-	-	23	-
Dawson County	64	-	-	-	63	1	0 to 19 employees.....	22	-	-	-	22	-
0 to 19 employees.....	61	-	-	-	60	1	20 to 99 employees.....	1	-	-	-	1	-
20 to 99 employees.....	2	-	-	-	2	-	Powder River County	16	-	-	1	15	-
100 to 249 employees.....	1	-	-	-	1	-	0 to 19 employees.....	15	-	-	1	14	-
Deer Lodge County	3	-	-	-	-	3	20 to 99 employees.....	1	-	-	-	1	-
0 to 19 employees.....	3	-	-	-	-	3	Powell County	10	2	-	-	5	3
Fallon County	38	-	-	-	38	-	0 to 19 employees.....	9	2	-	-	5	2
0 to 19 employees.....	35	-	-	-	35	-	100 to 249 employees.....	1	-	-	-	-	1
20 to 99 employees.....	3	-	-	-	3	-	Prairie County	8	-	-	-	8	-
Fergus County	9	-	-	1	7	1	0 to 19 employees.....	7	-	-	-	7	-
0 to 19 employees.....	9	-	-	1	7	1	20 to 99 employees.....	1	-	-	-	1	-
Flathead County	10	1	-	-	7	2	Ravalli County	2	1	-	-	-	1
0 to 19 employees.....	10	1	-	-	7	2	0 to 19 employees.....	2	1	-	-	-	1
Gallatin County	6	1	-	-	3	2	Richland County	144	-	-	1	143	-
0 to 19 employees.....	6	1	-	-	3	2	0 to 19 employees.....	127	-	-	1	126	-
Garfield County	8	-	-	-	8	-	20 to 99 employees.....	17	-	-	-	17	-
0 to 19 employees.....	8	-	-	-	8	-	Roosevelt County	77	-	-	-	77	-
Glacier County	49	-	-	-	49	-	0 to 19 employees.....	73	-	-	-	73	-
0 to 19 employees.....	43	-	-	-	43	-	20 to 99 employees.....	4	-	-	-	4	-
20 to 99 employees.....	6	-	-	-	6	-	Rosebud County	36	-	-	6	30	-
Golden Valley County	5	-	-	-	5	-	0 to 19 employees.....	32	-	-	3	29	-
0 to 19 employees.....	5	-	-	-	5	-	20 to 99 employees.....	2	-	-	1	1	-
Granite County	7	5	-	-	-	2	100 to 249 employees.....	1	-	-	1	-	-
0 to 19 employees.....	5	3	-	-	-	2	250 employees or more.....	1	-	-	1	-	-
20 to 99 employees.....	2	2	-	-	-	-	Sanders County	6	2	-	-	3	1
Hill County	19	-	-	-	18	1	0 to 19 employees.....	6	2	-	-	3	1
0 to 19 employees.....	17	-	-	-	16	1							
20 to 99 employees.....	2	-	-	-	2	-							

Table 6. Number of Mineral Establishments in Major Groups by Employment Size Class for Counties: 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Montana—Con.							Montana—Con.						
Sheridan County	70	-	-	-	69	1	Toole County	72	-	-	-	72	-
0 to 19 employees.....	66	-	-	-	65	1	0 to 19 employees.....	62	-	-	-	62	-
20 to 99 employees	4	-	-	-	4	-	20 to 99 employees	9	-	-	-	9	-
							100 to 249 employees	1	-	-	-	1	-
Silver Bow County	9	7	-	-	-	2	Treasure County	2	-	-	-	2	-
0 to 19 employees.....	7	5	-	-	-	2	0 to 19 employees.....	2	-	-	-	2	-
20 to 99 employees	1	1	-	-	-	-	Valley County	27	-	-	-	26	1
250 employees or more	1	1	-	-	-	-	0 to 19 employees.....	26	-	-	-	25	1
							20 to 99 employees	1	-	-	-	1	-
Stillwater County	12	1	-	-	11	-	Wheatland County	4	-	-	-	4	-
0 to 19 employees.....	12	1	-	-	11	-	0 to 19 employees.....	4	-	-	-	4	-
Sweet Grass County	2	-	-	-	2	-	Wibaux County	18	-	-	-	18	-
0 to 19 employees.....	2	-	-	-	2	-	0 to 19 employees.....	18	-	-	-	18	-
Teton County	22	-	-	-	21	1	Yellowstone County	75	-	-	-	72	3
0 to 19 employees.....	22	-	-	-	21	1	0 to 19 employees.....	71	-	-	-	68	3
							20 to 99 employees	4	-	-	-	4	-



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SUMMARY OF FINDINGS

The total value of shipments and receipts for the 334 establishments classified in mineral industries in Nevada amounted to \$608 million in 1982, compared to \$230 million in 1977. Value added by mining amounted to \$468 million in 1982, and payroll in mining amounted to \$155 million. All dollar figures shown are in current dollars for the years specified and have not been adjusted for changes in price levels. When making comparisons

to prior years, users should take into consideration the inflation that has occurred.

Mineral industries employment in Nevada was 6.6 thousand in 1982, an increase of 61 percent over 1977. Metal mining led all other mineral industries in the State, accounting for 55 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1982 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Kind of operation and year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
Mineral industries:											
1982 ¹	2334	253	6.6	154.9	5.2	10.9	119.0	467.6	264.4	608.0	124.1
1977 ¹	189	31	4.1	61.8	3.1	5.9	44.4	152.4	110.2	229.8	32.9
1972 ¹	143	18	3.2	32.5	2.4	5.1	23.7	103.5	58.4	156.0	5.9
1967 ¹	131	21	2.9	22.8	2.4	5.2	18.3	54.9	47.4	87.5	14.9
1963	204	18	2.7	17.3	2.3	5.0	14.4	39.6	36.9	70.8	5.7
1958	203	28	3.1	16.3	2.5	5.0	12.6	32.3	41.1	63.8	9.7
Excluding oil and gas extraction industries:											
1982 ¹	217	42	5.1	122.4	4.0	8.2	92.9	360.7	(D)	476.4	(D)
1977	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1972	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1967	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1963	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1958	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: For data prior to 1958, see 1963 Census of Mineral Industries, volume II.

¹Beginning with 1967, data for single-unit establishments without paid employees were excluded from the census.

²Not comparable to prior years. See Introduction for further explanation.

Table 2a. Mineral Establishment Statistics by Industry for the State: 1982 and 1977

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and industry	1982											1977		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees ² (1,000)	Value added by mining (million dollars)	
		Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)							
		E ¹													
	All mineral industries ..	E1	334	53	6.6	154.9	5.2	10.9	119.0	467.6	264.4	608.0	124.1	4.1	152.4
10	Metal mining	-	154	26	3.6	88.5	2.8	5.8	67.0	274.7	138.3	342.1	70.9	2.7	82.3
104	Gold and silver ores	-	51	16	2.8	68.6	2.3	4.7	54.9	236.1	(D)	308.1	(D)	.4	38.2
1041	Gold ores	-	41	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
1044	Silver ores	-	10	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1061	Ferroalloy ores, except vanadium	E2	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
1081	Metal mining services	E3	54	5	.3	6.3	.2	.5	4.7	10.2	6.6	15.4	1.3	.2	6.9
109	Miscellaneous metal ores	E3	35	2	.3	4.3	.2	.3	2.7	11.4	3.3	13.4	1.3	(NA)	(NA)
1092	Mercury ores and metallic ores, n.e.c.	E3	27	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1099															
13	Oil and gas extraction	E2	117	11	1.5	32.5	1.2	2.7	26.1	106.9	(D)	131.6	(D)	AA	(D)
1311	Crude petroleum and natural gas	E7	30	2	.1	3.6	.1	.1	1.3	21.9	(D)	38.4	(D)	(D)	(D)
138	Oil and gas field services	E1	87	9	1.4	28.9	1.2	2.6	24.7	85.0	24.9	93.2	16.8	.2	6.8
1381	Drilling oil and gas wells	E1	16	3	.2	5.0	.1	.3	4.2	8.0	7.3	13.7	1.6	(NA)	(NA)
1382	Oil and gas field exploration services	E1	38	3	.3	6.2	.3	.6	4.9	15.4	(D)	20.9	(D)	(NA)	(NA)
1389	Oil and gas field services, n.e.c.	-	33	3	.9	17.7	.8	1.6	15.6	61.7	(D)	58.6	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels	-	60	16	1.5	33.8	1.1	2.4	25.9	85.8	74.3	134.1	26.1	1.1	57.5
144	Sand and gravel	-	13	3	.2	3.8	.2	.3	3.3	13.9	(D)	15.5	(D)	AA	(D)
1442	Construction sand and gravel	-	12	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	6.4
145	Clay, ceramic, and refractory minerals	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
1459	Clay, ceramic, and refractory minerals, n.e.c. ..	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
147	Chemical and fertilizer mineral mining	-	20	7	.6	14.1	.5	1.1	11.3	34.4	37.1	54.4	17.2	.4	30.9
1472	Barite	-	15	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
1474	Potash, soda, and borate minerals	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
149	Miscellaneous nonmetallic minerals	-	12	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	9.6
1499	Miscellaneous nonmetallic minerals, n.e.c.	-	10	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	9.6

See footnotes at end of table.

Table 2a. **Mineral Establishment Statistics by Industry for the State: 1982 and 1977—Con.**

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries and industry groups are withheld to avoid disclosing data for individual companies. However, for such industries and industry groups with 100 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 2b. **Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1982**

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s. tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures	9	.2	1.8	2.1	(X)
Crushed and broken stone, including riprap	2	(D)	(D)	(D)	(D)
Crushed and broken limestone	2	(D)	(D)	(D)	(D)
Gypsum	3	(D)	(D)	(D)	(D)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. **Selected Statistics by Type of Operation and Industry Group for the State: 1982**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of estab- lish- ments	Producing establishments										Nonpro- ducing estab- lish- ments	
			Total	Mines only				Mines with preparation plants				Seps- arately operated prepara- tion plants		Undistrib- uted¹
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods			
	ALL MINERAL INDUSTRIES													
	Establishments.....number..	334	301	34	9	13	12	53	4	48	1	1	213	33
	Employees1,000...	6.6	6.3	.2	(Z)	.1	(Z)	3.7	.3	3.4	(Z)	(D)	(D)	.3
	Value added in mining mil. dol...	467.6	471.5	30.6	.6	2.6	27.4	328.3	22.5	305.8	(Z)	(D)	(D)	-3.9
10	METAL MINING													
	Establishments.....number..	154	140	11	8	3	-	18	3	14	1	-	111	14
	Employees1,000...	3.6	3.4	(D)	(D)	(D)	-	2.5	.3	2.3	(Z)	-	(D)	.2
	Value added in mining mil. dol...	274.7	273.1	(D)	(D)	(D)	-	250.4	22.5	227.8	(Z)	-	(D)	1.7
101	Iron ores													
	Establishments.....number..	3	3	2	-	2	-	-	-	-	-	-	1	-
	Employees1,000...	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	(Z)	-
	Value added in mining mil. dol...	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
102	Copper ores													
	Establishments.....number..	2	2	1	-	1	-	-	-	-	-	-	1	-
	Employees1,000...	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	(D)	-
	Value added in mining mil. dol...	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
103	Lead and zinc ores													
	Establishments.....number..	1	-	-	-	-	-	-	-	-	-	-	-	1
	Employees1,000...	(D)	-	-	-	-	-	-	-	-	-	-	-	(D)
	Value added in mining mil. dol...	(D)	-	-	-	-	-	-	-	-	-	-	-	(D)
104	Gold and silver ores													
	Establishments.....number..	51	46	6	6	-	-	15	1	13	1	-	25	5
	Employees1,000...	2.8	(D)	(D)	(D)	-	-	2.3	(D)	(D)	(Z)	-	(D)	(D)
	Value added in mining mil. dol...	236.1	(D)	(D)	(D)	-	-	229.3	(D)	(D)	(Z)	-	(D)	(D)

See footnotes at end of table.

Table 3. **Selected Statistics by Type of Operation and Industry Group for the State: 1982—**
Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of estab- lish- ments	Producing establishments										Nonpro- ducing estab- lish- ments	
			Total	Mines only				Mines with preparation plants				Separ- ately operated prepara- tion plants		Undistri- buted ¹
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods			
10	METAL MINING—Con.													
106	Ferroalloy ores, except vanadium													
	Establishments..... number..	8	7	-	-	-	-	2	2	-	-	-	5	1
	Employees.....1,000.....	(D)	(D)	-	-	-	-	(D)	(D)	-	-	-	(D)	(D)
	Value added in mining..... mil. dol..	(D)	(D)	-	-	-	-	(D)	(D)	-	-	-	(D)	(D)
108	Metal mining services													
	Establishments..... number..	54	54	-	-	-	-	-	-	-	-	-	54	-
	Employees.....1,000.....	.3	.3	-	-	-	-	-	-	-	-	-	.3	-
	Value added in mining..... mil. dol..	10.2	10.2	-	-	-	-	-	-	-	-	-	10.2	-
109	Miscellaneous metal ores													
	Establishments..... number..	35	28	2	2	-	-	1	-	1	-	-	25	7
	Employees.....1,000.....	.3	.2	(D)	(D)	-	-	(D)	-	(D)	-	-	.2	(Z)
	Value added in mining..... mil. dol..	11.4	11.0	(D)	(D)	-	-	(D)	-	(D)	-	-	4.1	.3
12	BITUMINOUS COAL AND LIGNITE MINING													
	Establishments..... number..	3	3	1	1	-	-	-	-	-	-	-	2	-
	Employees.....1,000.....	(Z)	(Z)	(D)	(D)	-	-	-	-	-	-	-	(D)	-
	Value added in mining..... mil. dol..	.2	.2	(D)	(D)	-	-	-	-	-	-	-	(D)	-
121	Bituminous coal and lignite mining													
	Establishments..... number..	3	3	1	1	-	-	-	-	-	-	-	2	-
	Employees.....1,000.....	(Z)	(Z)	(D)	(D)	-	-	-	-	-	-	-	(D)	-
	Value added in mining..... mil. dol..	.2	.2	(D)	(D)	-	-	-	-	-	-	-	(D)	-
13	OIL AND GAS EXTRACTION													
	Establishments..... number..	117	100	12	-	-	12	-	-	-	-	-	88	17
	Employees.....1,000.....	1.5	1.5	(Z)	-	-	(Z)	-	-	-	-	-	1.4	(Z)
	Value added in mining..... mil. dol..	106.9	112.4	27.4	-	-	27.4	-	-	-	-	-	85.0	-5.6
131	Crude petroleum and natural gas													
	Establishments..... number..	30	13	12	-	-	12	-	-	-	-	-	1	17
	Employees.....1,000.....	.1	.1	(Z)	-	-	(Z)	-	-	-	-	-	(Z)	(Z)
	Value added in mining..... mil. dol..	21.9	27.4	27.4	-	-	27.4	-	-	-	-	-	-	-5.6
138	Oil and gas field services													
	Establishments..... number..	87	87	-	-	-	-	-	-	-	-	-	87	-
	Employees.....1,000.....	1.4	1.4	-	-	-	-	-	-	-	-	-	1.4	-
	Value added in mining..... mil. dol..	85.0	85.0	-	-	-	-	-	-	-	-	-	85.0	-
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments..... number..	60	58	10	-	10	-	35	1	34	-	1	12	2
	Employees.....1,000.....	1.5	1.4	(D)	-	(D)	-	1.1	(Z)	1.1	-	(D)	(D)	(Z)
	Value added in mining..... mil. dol..	85.8	85.8	(D)	-	(D)	-	77.9	(Z)	78.0	-	(D)	(D)	(Z)

See footnotes at end of table.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1982—
Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of estab- lish- ments	Producing establishments											Nonpro- ducing estab- lish- ments
			Total	Mines only				Mines with preparation plants				Sepsa- rately operated prepara- tion plants	Undistri- buted¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods			
14	NONMETALLIC MINERALS, EXCEPT FUELS—Con.													
142	Crushed and broken stone, including riprap													
	Establishments..... number..	4	4	-	-	-	-	4	-	4	-	-	-	-
	Employees1,000...	(Z)	(Z)	-	-	-	-	(Z)	-	(Z)	-	-	-	-
	Value added in mining mil. dol...	1.7	1.7	-	-	-	-	1.7	-	1.7	-	-	-	-
144	Sand and gravel													
	Establishments..... number..	13	12	-	-	-	-	9	-	9	-	-	3	1
	Employees1,000...	2	2	-	-	-	-	(D)	-	(D)	-	-	(D)	(Z)
	Value added in mining mil. dol...	13.9	13.9	-	-	-	-	(D)	-	(D)	-	-	(D)	-
145	Clay, ceramic, and refractory minerals													
	Establishments..... number..	3	2	-	-	-	-	2	-	2	-	-	-	1
	Employees1,000...	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	-	(Z)
	Value added in mining mil. dol...	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	-	(Z)
147	Chemical and fertilizer mineral mining													
	Establishments..... number..	20	20	9	-	9	-	9	-	9	-	1	1	-
	Employees1,000...	.6	.6	(D)	-	(D)	-	.4	-	.4	-	(D)	(Z)	-
	Value added in mining mil. dol...	34.4	34.4	(D)	-	(D)	-	30.5	-	30.5	-	(D)	-	-
148	Nonmetallic minerals services													
	Establishments..... number..	8	8	-	-	-	-	-	-	-	-	-	8	-
	Employees1,000...	(Z)	(Z)	-	-	-	-	-	-	-	-	-	(Z)	-
	Value added in mining mil. dol...	3.2	3.2	-	-	-	-	-	-	-	-	-	3.2	-
149	Miscellaneous nonmetallic minerals													
	Establishments..... number..	12	12	1	-	1	-	11	1	10	-	-	-	-
	Employees1,000...	(D)	(D)	(D)	-	(D)	-	(D)	(Z)	(D)	-	-	-	-
	Value added in mining mil. dol...	(D)	(D)	(D)	-	(D)	-	(D)	(Z)	(D)	-	-	-	-

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4a. **Summary Statistics for the State: 1982**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Item	1982	Item	1982
Establishments during year ----- number	334	Cost of supplies ----- mil. dol..	264.4
With 0 to 19 employees ----- do..	281	Supplies used, minerals received, and purchased machinery installed ----- do..	174.5
With 20 to 99 employees ----- do..	37	Resales ----- do..	(D)
With 100 employees or more ----- do..	16	Purchased fuels consumed ----- do..	31.8
All employees:		Purchased electric energy:	
Average for year ----- 1,000	6.6	Quantity ----- mil. kWh..	395.8
Payroll for year ----- mil. dol..	154.9	Cost ----- mil. dol..	19.0
		Electric energy generated less sold ----- mil. kWh..	33.8
		Contract work ----- mil. dol..	(D)
Production, development, and exploration workers:		Cost of purchased communication services ----- do..	.8
Average for year ----- 1,000	5.2	Value of shipments and receipts ----- do..	608.0
March ----- do..	5.7	Value of resales ----- do..	(D)
May ----- do..	5.6		
August ----- do..	5.2	Capital expenditures during year (except land and mineral rights) ----- do..	124.1
November ----- do..	4.5	New capital expenditures during year ----- do..	92.3
Hours ----- millions..	10.9	Buildings and other structures, except land ----- do..	28.1
January to March ----- do..	3.0	Machinery and equipment ----- do..	64.2
April to June ----- do..	2.9		
July to September ----- do..	2.6	Used capital expenditures during year ----- do..	4.4
October to December ----- do..	2.4	Buildings and other structures, except land ----- do..	.2
		Machinery and equipment ----- do..	4.2
Wages ----- mil. dol..	119.0	Mineral exploration and development ¹ ----- do..	27.3
Supplemental labor costs not included in payroll ----- do..	34.5	Rental payments during year ----- do..	6.9
Legally required expenditures, including Social Security contributions ----- do..	17.5	Buildings and other structures, except land ----- do..	1.1
Payments for voluntary programs ----- do..	17.0	Machinery and equipment ----- do..	5.8
Value added by mining ----- do..	467.6	Expensed mineral exploration, development, land, and rights ^{1 2} ----- do..	26.9

¹Excludes data for mining service industries and natural gas liquids industry where data were not collected.²Excludes data for mineral land and rights for the crude petroleum and natural gas industry where data were not collected.Table 4b. **Inventories for the State: End of 1981 and 1982**

[Million dollars. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Item	End of 1981	End of 1982
Total Inventories¹ -----	91.6	100.4
Detail by method of valuation:		
Subject to LIFO costing ² -----	16.6	15.5
LIFO reserve -----	3.4	3.8
LIFO value -----	13.2	11.8
Not subject to LIFO costing -----	55.6	65.8
Valuation method not reported ³ -----	19.4	19.1
Amount subject to LIFO reported without associated reserve and value ⁴ -----	-	-

¹Beginning in the 1982 economic censuses, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.²Only includes data reported by respondents who (a) indicated amount of inventories subject to LIFO cost, and (b) provided sufficient information to determine associated LIFO reserve and value figures.³Includes data estimated for nonresponse and nonmail administrative records and data reported by respondents who provided total inventory figures without other information.⁴Includes data reported by respondents who indicated their inventories were subject to LIFO cost but did not provide associated LIFO reserve and value figures.Table 5. **Industry Group Statistics for Counties: 1982 and 1977**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group ¹	1982											1977		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)	
		E ²	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	Nevada-----	E1	334	53	6.6	154.9	5.2	10.9	119.0	467.6	264.4	608.0	124.1	4.1	152.4
	Clark County-----	E6	39	5	.3	6.0	.3	.5	4.4	25.7	12.2	31.8	6.1	.2	6.6
13	Oil and gas extraction-----	E8	13	1	.1	1.6	(Z)	.1	1.2	13.5	(D)	19.1	(D)	(NA)	(NA)
131	Crude petroleum and natural gas-----	E9	4	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels-----	-	10	3	.2	3.4	.1	.2	2.3	9.1	(D)	9.2	(D)	.2	5.7
144	Sand and gravel-----	-	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group ¹	1982												1977	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)	
		E ²	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	Nevada—Con.														
	Elko County -----	-	44	8	1.5	35.7	1.1	2.4	24.8	143.4	46.0	159.3	30.1	(NA)	(NA)
10	Metal mining -----	-	17	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
104	Gold and silver ores -----	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction -----	-	20	4	.9	18.6	.8	1.7	16.4	64.2	(D)	61.6	(D)	(NA)	(NA)
138	Oil and gas field services -----	-	19	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels-----	E2	7	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
147	Chemical and fertilizer mineral mining -----	-	5	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Esmeralda County -----	-	3	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
10	Metal mining -----	-	3	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
104	Gold and silver ores -----	-	2	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Eureka County -----	-	15	4	.5	13.1	.4	.9	10.7	52.2	31.8	70.5	13.5	(NA)	(NA)
10	Metal mining -----	-	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
104	Gold and silver ores -----	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Humboldt County -----	E1	15	3	.3	6.2	.2	.5	5.5	29.7	10.6	37.6	2.7	.1	4.7
10	Metal mining -----	E1	11	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
104	Gold and silver ores -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
109	Miscellaneous metal ores -----	-	2	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Lander County -----	-	25	6	.8	21.2	.8	1.7	19.3	40.9	45.6	68.1	18.4	.6	38.9
10	Metal mining -----	-	11	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
104	Gold and silver ores -----	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
108	Metal mining services -----	-	6	2	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels-----	-	10	3	.3	7.9	.3	.6	6.5	24.0	(D)	30.1	(D)	(NA)	(NA)
147	Chemical and fertilizer mineral mining -----	-	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Mineral County -----	-	12	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
10	Metal mining -----	-	9	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
104	Gold and silver ores -----	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Nye County -----	-	39	6	.9	20.8	.8	1.6	18.4	40.8	62.0	87.4	15.5	.6	21.9
10	Metal mining -----	E1	9	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
104	Gold and silver ores -----	-	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction -----	-	25	2	.2	3.6	.2	.4	2.9	4.2	21.3	20.2	5.3	.1	9.4
131	Crude petroleum and natural gas-----	-	12	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	-	13	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels-----	-	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
145	Clay, ceramic, and refractory minerals -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
147	Chemical and fertilizer mineral mining -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Pershing County -----	-	9	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels-----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
149	Miscellaneous nonmetallic minerals -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Storey County -----	E2	6	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels-----	-	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
149	Miscellaneous nonmetallic minerals -----	-	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group ¹	1982												1977	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees (1,000)	Value added by mining (million dollars)	
		E ²	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	Nevada—Con. Washoe County -----	E7	63	9	.6	14.9	.4	.8	8.3	23.2	10.0	30.5	2.7	.2	6.2
10	Metal mining -----	E9	36	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction -----	E9	16	2	.1	3.6	.1	.1	1.3	10.6	4.6	14.5	.7	(NA)	(NA)
131	Crude petroleum and natural gas -----	E9	5	2	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels -----	E2	10	2	.1	3.2	.1	.1	1.4	6.2	(D)	8.2	(D)	.1	4.9
144	Sand and gravel -----	-	4	1	(Z)	1.1	(Z)	.1	1.1	4.7	(D)	6.3	(D)	(NA)	(NA)
	White Pine County -----	-	18	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
10	Metal mining -----	-	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
104	Gold and silver ores -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Carson City (IC) -----	E8	13	1	.1	1.6	.1	.1	1.1	5.5	1.7	5.3	1.9	(NA)	(NA)

¹County data shown in this table are limited to counties or industry groups with a value of shipments and receipts greater than \$5 million.

²Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

³Some statistics for counties or industry groups with a value of shipments and receipts greater than \$5 million are withheld to avoid disclosing data for individual companies. However, for such counties and industry groups, number of establishments is shown and employment size range is indicated by one of the following symbols: ZZ—less than 100 employees; AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 6. Number of Mineral Establishments in Major Groups by Employment Size Class for Counties: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Nevada	334	154	-	3	117	60	Nevada—Con.						
0 to 4 employees	189	97	-	3	73	16	Humboldt County	15	11	-	1	2	1
5 to 9 employees	60	19	-	-	25	16	0 to 19 employees	12	8	-	1	2	1
10 to 19 employees	32	12	-	-	8	12	20 to 99 employees	2	2	-	-	-	-
20 to 49 employees	24	9	-	-	7	8	100 to 249 employees	1	1	-	-	-	-
50 to 99 employees	13	6	-	-	3	4	Lander County	25	11	-	-	4	10
100 to 249 employees	11	7	-	-	-	4	0 to 19 employees	19	8	-	-	4	7
250 to 499 employees	4	4	-	-	-	-	20 to 99 employees	4	2	-	-	-	2
500 to 999 employees	1	-	-	-	1	-	100 to 249 employees	1	1	-	-	-	1
Churchill County	14	5	-	-	6	3	250 employees or more	1	1	-	-	-	-
0 to 19 employees	14	5	-	-	6	3	Lincoln County	6	3	-	-	2	1
Clark County	39	16	-	-	13	10	0 to 19 employees	5	2	-	-	2	1
0 to 19 employees	34	15	-	-	12	7	20 to 99 employees	1	1	-	-	-	-
20 to 99 employees	5	1	-	-	1	3	Lyon County	11	3	-	-	3	5
Douglas County	2	-	-	-	2	-	0 to 19 employees	11	3	-	-	3	5
0 to 19 employees	2	-	-	-	2	-	Mineral County	12	9	-	-	2	1
Elko County	44	17	-	-	20	7	0 to 19 employees	9	7	-	-	2	-
0 to 19 employees	36	14	-	-	16	6	20 to 99 employees	2	1	-	-	-	1
20 to 99 employees	5	1	-	-	3	1	250 employees or more	1	1	-	-	-	-
100 to 249 employees	2	2	-	-	-	-	Nye County	39	9	-	-	25	5
250 employees or more	1	-	-	-	1	-	0 to 19 employees	33	8	-	-	23	2
Esmeralda County	3	3	-	-	-	-	20 to 99 employees	3	-	-	-	2	1
0 to 19 employees	2	2	-	-	-	-	100 to 249 employees	3	1	-	-	-	2
20 to 99 employees	1	1	-	-	-	-	Pershing County	9	7	-	-	1	1
Eureka County	15	8	-	-	5	2	0 to 19 employees	7	6	-	-	1	-
0 to 19 employees	11	5	-	-	5	1	100 to 249 employees	2	1	-	-	-	1
20 to 99 employees	2	1	-	-	1	-	Storey County	6	4	-	-	1	1
100 to 249 employees	1	1	-	-	-	-	0 to 19 employees	5	4	-	-	1	-
250 employees or more	1	1	-	-	-	-	20 to 99 employees	1	-	-	-	-	1

Table 6. Number of Mineral Establishments in Major Groups by Employment Size Class for Counties: 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Nevada—Con.							Nevada—Con.						
Washoe County	63	36	-	1	16	10	White Pine County—Con.						
0 to 19 employees.....	54	31	-	1	14	8	20 to 99 employees	2	1	-	-	1	-
20 to 99 employees	8	4	-	-	2	2	250 employees or more	1	1	-	-	-	-
100 to 249 employees	1	1	-	-	-	-	Carson City (IC)	13	5	-	1	4	3
White Pine County	18	7	-	-	11	-	0 to 19 employees.....	12	5	-	1	3	3
0 to 19 employees.....	15	5	-	-	10	-	20 to 99 employees	1	-	-	-	1	-

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SUMMARY OF FINDINGS

The total value of shipments and receipts for the 1,581 establishments classified in mineral industries in New Mexico amounted to \$9,683 million in 1982, or 4 percent of the Nation's total. This compares to \$3,748 million in 1977 when it also was 4 percent of the Nation's total. Value added by mining amounted to \$7,127 million in 1982, and payroll in mining amounted to \$660 million. All dollar figures shown are in current dollars for the years specified and have not been adjusted for changes in

price levels. When making comparisons to prior years, users should take into consideration the inflation that has occurred.

Mineral industries employment in New Mexico was 26.6 thousand in 1982, an increase of 13 percent over 1977. It accounted for 2 percent of the Nation's total. Oil and gas extraction led all other mineral industries in the State, accounting for 62 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1982 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Kind of operation and year	Establishments during year ¹		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
Mineral industries:											
1982 ²	1 581	248	26.6	660.0	20.5	43.4	497.1	7 126.7	3 979.8	9 683.3	1 423.3
1977 ²	752	177	23.5	377.3	19.1	39.2	301.2	2 688.7	1 597.4	3 747.8	538.3
1972 ²	578	135	16.2	160.2	13.2	27.3	123.7	957.8	550.9	1 333.4	175.3
1967 ²	690	156	16.6	120.7	13.0	26.6	90.2	718.8	477.5	1 034.4	161.9
1963	865	149	17.6	114.6	13.8	28.0	85.4	649.6	377.7	876.9	150.4
1958	761	142	17.5	97.2	13.5	28.1	70.1	532.0	396.8	704.6	224.2
Excluding oil and gas extraction industries:											
1982 ²	143	39	10.2	274.3	7.9	16.1	203.0	684.4	682.2	958.4	408.2
1977 ²	155	50	13.5	221.2	11.2	22.4	177.8	560.6	397.0	813.5	144.1
1972 ²	106	37	8.8	91.4	7.3	15.2	71.9	305.9	165.0	408.6	62.4
1967 ²	133	39	8.4	64.8	6.5	13.2	49.0	173.1	133.7	272.5	35.1
1963 ³	199	40	8.3	61.4	6.0	14.0	45.7	205.0	104.8	281.3	28.5
1958 ³	214	34	8.6	48.5	6.9	13.8	36.5	152.9	129.7	206.2	76.4

Note: For data prior to 1958, see 1963 Census of Mineral Industries, volume II.

¹Figures for number of establishments are not comparable from year to year due to various methods of collection in the crude petroleum and natural gas and service industries. See Introduction for further explanation.
²Beginning with 1967, data for single-unit establishments without paid employees were excluded from the census.
³Includes data for mining operations at manufacturing locations.

Table 2a. Mineral Establishment Statistics by Industry for the State: 1982 and 1977

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and industry	1982											1977		
		E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees ² (1,000)	Value added by mining (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
	All mineral industries ----	-	1 581	248	26.6	660.0	20.5	43.4	497.1	7 126.7	3 979.8	9 683.3	1 423.3	23.5	2 688.7
10	Metal mining-----	-	85	23	5.2	140.9	4.1	8.3	105.7	223.8	471.0	366.5	328.3	8.7	337.5
1021	Copper ores-----	-	7	4	1.0	28.7	.8	1.5	22.5	29.2	(D)	87.7	(D)	EE	(D)
104	Gold and silver ores -----	E1	12	4	.2	4.2	.2	.3	3.4	20.4	(D)	25.6	(D)	(NA)	(NA)
1041	Gold ores -----	E1	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1061	Ferroalloy ores, except vanadium -----	E9	4	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
1081	Metal mining services -----	-	23	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	21.2
109	Miscellaneous metal ores -----	-	38	13	2.9	80.8	2.3	4.9	57.3	156.3	(D)	244.3	(D)	5.2	201.4
1094	Uranium-radium-vanadium ores -----	-	29	13	2.9	80.6	2.3	4.9	57.1	155.8	(D)	243.8	(D)	5.2	201.2
12	Bituminous coal and lignite mining -----	-	15	6	2.1	62.8	1.6	3.5	48.3	330.3	95.1	369.7	55.6	1.3	83.9
121	Bituminous coal and lignite mining -----	-	15	6	2.1	62.8	1.6	3.5	48.3	330.3	95.1	369.7	55.6	1.3	83.9
1211	Bituminous coal and lignite --	-	12	6	2.1	62.6	1.6	3.5	48.3	330.0	(D)	369.4	(D)	EE	(D)
13	Oil and gas extraction -----	-	1 438	209	16.4	385.7	12.6	27.3	294.1	6 442.3	3 297.7	8 724.9	1 015.1	10.1	2 132.7
1311	Crude petroleum and natural gas-----	-	646	45	4.4	116.6	2.9	5.9	78.7	5 130.5	1 140.1	5 436.2	834.4	2.5	1 559.9
1321	Natural gas liquids -----	-	34	19	1.1	29.4	1.1	2.0	28.4	718.5	1 838.1	2 536.4	20.2	.9	367.5
138	Oil and gas field services -----	E2	758	145	10.9	239.6	8.6	19.3	186.9	593.2	319.5	752.3	160.5	6.6	205.4
1381	Drilling oil and gas wells -----	E1	208	53	3.7	88.6	3.2	6.6	72.5	221.1	148.3	277.0	92.5	2.8	77.8
1382	Oil and gas field exploration services -----	E3	74	10	.7	11.8	.6	1.2	9.1	29.9	14.7	37.5	7.2	.2	7.5
1389	Oil and gas field services, n.e.c. -----	E2	476	82	6.5	139.3	4.9	11.5	105.3	342.2	156.5	437.8	60.8	3.6	120.1
14	Nonmetallic minerals, except fuels -----	-	43	10	2.9	70.6	2.2	4.3	48.9	130.4	116.2	222.2	24.3	3.5	134.6
144	Sand and gravel -----	E4	18	-	.1	1.2	.1	.1	.9	3.1	1.5	3.6	1.0	(NA)	(NA)
1442	Construction sand and gravel -----	E4	18	-	.1	1.2	.1	.1	.9	3.1	1.5	3.6	1.0	(NA)	(NA)
147	Chemical and fertilizer mineral mining -----	-	7	7	2.6	66.1	2.0	3.9	45.2	117.1	109.8	203.9	22.8	3.0	114.1
1474	Potash, soda, and borate minerals -----	-	7	7	2.6	66.1	2.0	3.9	45.2	117.1	109.8	203.9	22.8	FF	(D)
149	Miscellaneous nonmetallic minerals -----	-	11	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	4.1
1499	Miscellaneous nonmetallic minerals, n.e.c. -----	-	9	3	.1	2.2	.1	.2	1.9	7.4	2.9	10.2	.2	AA	(D)

See footnotes at end of table.

Table 2a. **Mineral Establishment Statistics by Industry for the State: 1982 and 1977—Con.**

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries and industry groups are withheld to avoid disclosing data for individual companies. However, for such industries and industry groups with 100 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 2b. **Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1982**

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s. tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures	10	.2	1.7	1.3	(X)
Sand and gravel.....	7	(D)	(D)	(D)	(D)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. **Selected Statistics by Type of Operation and Industry Group for the State: 1982**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of establishments	Producing establishments											Nonproducing establishments
			Total	Mines only				Mines with preparation plants				Separately operated preparation plants	Undistributed ¹	
				Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods			
10	ALL MINERAL INDUSTRIES													
	Establishments.....number...	1 581	1 545	649	22	8	619	35	12	21	2	36	825	36
	Employees1,000...	26.6	25.7	(D)	1.3	.6	(D)	6.7	4.3	(D)	(D)	(D)	11.7	.9
	Value added in mining mil. dol...	7 126.7	7 107.3	(D)	38.0	21.0	(D)	582.7	219.2	(D)	(D)	(D)	605.7	19.4
102	METAL MINING													
	Establishments.....number...	85	72	21	20	1	-	9	5	2	2	2	40	13
	Employees1,000...	5.2	4.3	(D)	(D)	(D)	-	2.4	1.7	(D)	(D)	(D)	.4	.8
	Value added in mining mil. dol...	223.8	207.8	(D)	(D)	(D)	-	159.1	102.1	(D)	(D)	(D)	10.4	16.0
103	Copper ores													
	Establishments.....number...	7	5	1	-	1	-	3	1	1	1	1	-	2
	Employees1,000...	1.0	1.0	(D)	-	(D)	-	(D)	(D)	(D)	(D)	(D)	-	(Z)
	Value added in mining mil. dol...	29.2	29.2	(D)	-	(D)	-	(D)	(D)	(D)	(D)	(D)	-	(Z)
104	Lead and zinc ores													
	Establishments.....number...	1	1	1	1	-	-	-	-	-	-	-	-	-
	Employees1,000...	(Z)	(Z)	(Z)	(Z)	-	-	-	-	-	-	-	-	-
	Value added in mining mil. dol...	(Z)	(Z)	(Z)	(Z)	-	-	-	-	-	-	-	-	-
106	Gold and silver ores													
	Establishments.....number...	12	12	4	4	-	-	2	1	1	-	-	6	-
	Employees1,000...	.2	.2	(D)	(D)	-	-	(D)	(D)	(D)	-	-	(D)	-
	Value added in mining mil. dol...	20.4	20.4	(D)	(D)	-	-	(D)	(D)	(D)	-	-	(D)	-
106	Ferroalloy ores, except vanadium													
	Establishments.....number...	4	1	-	-	-	-	-	-	-	-	-	1	3
	Employees1,000...	(D)	-	-	-	-	-	-	-	-	-	-	(D)	(D)
	Value added in mining mil. dol...	(D)	(Z)	-	-	-	-	-	-	-	-	-	(Z)	(D)

See footnotes at end of table.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1982—

Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of estab- lish- ments	Producing establishments										Nonpro- ducing estab- lish- ments	
			Total	Mines only				Mines with preparation plants				Sepsa- rately operated prepara- tion plants		Undistri- buted¹
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods			
10	METAL MINING—Con.													
108	Metal mining services													
	Establishments..... number..	23	23	-	-	-	-	-	-	-	-	-	23	-
	Employees.....1,000.....	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
	Value added in mining..... mil. dol..	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
109	Miscellaneous metal ores													
	Establishments..... number..	38	30	15	15	-	-	4	3	-	1	1	10	8
	Employees.....1,000.....	2.9	(D)	.8	.8	-	-	1.9	(D)	-	(D)	(D)	.1	(D)
	Value added in mining..... mil. dol..	156.3	(D)	11.1	11.1	-	-	139.4	(D)	-	(D)	(D)	.4	(D)
12	BITUMINOUS COAL AND LIGNITE MINING													
	Establishments..... number..	15	14	3	2	1	-	4	-	4	-	-	7	1
	Employees.....1,000.....	2.1	(D)	(D)	(D)	(D)	-	1.5	-	1.5	-	-	(Z)	(D)
	Value added in mining..... mil. dol..	330.3	(D)	(D)	(D)	(D)	-	297.2	-	297.2	-	-	.3	(D)
121	Bituminous coal and lignite mining													
	Establishments..... number..	15	14	3	2	1	-	4	-	4	-	-	7	1
	Employees.....1,000.....	2.1	(D)	(D)	(D)	(D)	-	1.5	-	1.5	-	-	(Z)	(D)
	Value added in mining..... mil. dol..	330.3	(D)	(D)	(D)	(D)	-	297.2	-	297.2	-	-	.3	(D)
13	OIL AND GAS EXTRACTION													
	Establishments..... number..	1 438	1 417	619	-	-	619	-	-	-	-	34	764	21
	Employees.....1,000.....	16.4	(D)	(D)	-	-	(D)	-	-	-	-	1.1	11.2	(D)
	Value added in mining..... mil. dol..	6 442.3	(D)	(D)	-	-	(D)	-	-	-	-	718.5	593.2	(D)
131	Crude petroleum and natural gas													
	Establishments..... number..	646	625	619	-	-	619	-	-	-	-	-	6	21
	Employees.....1,000.....	4.4	(D)	(D)	-	-	(D)	-	-	-	-	-	.2	(D)
	Value added in mining..... mil. dol..	5 130.5	(D)	(D)	-	-	(D)	-	-	-	-	-	-	(D)
132	Natural gas liquids													
	Establishments..... number..	34	34	-	-	-	-	-	-	-	-	34	-	-
	Employees.....1,000.....	1.1	1.1	-	-	-	-	-	-	-	-	1.1	-	-
	Value added in mining..... mil. dol..	718.5	718.5	-	-	-	-	-	-	-	-	718.5	-	-
138	Oil and gas field services													
	Establishments..... number..	758	758	-	-	-	-	-	-	-	-	-	758	-
	Employees.....1,000.....	10.9	10.9	-	-	-	-	-	-	-	-	-	10.9	-
	Value added in mining..... mil. dol..	593.2	593.2	-	-	-	-	-	-	-	-	-	593.2	-
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments..... number..	43	42	6	-	6	-	22	7	15	-	-	14	1
	Employees.....1,000.....	2.9	(D)	(D)	-	(D)	-	2.8	2.6	.2	-	-	.1	(D)
	Value added in mining..... mil. dol..	130.4	(D)	(D)	-	(D)	-	126.4	117.1	9.3	-	-	1.8	(D)
142	Crushed and broken stone, including riprap													
	Establishments..... number..	2	2	-	-	-	-	2	-	2	-	-	-	-
	Employees.....1,000.....	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	-	-
	Value added in mining..... mil. dol..	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	-	-

See footnotes at end of table.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1982—
Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of estab- lish- ments	Producing establishments										Nonpro- ducing estab- lish- ments	
			Total	Mines only				Mines with preparation plants				Sepsa- rately operated prepara- tion plants		Undistri- buted¹
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods			
14	NONMETALLIC MINERALS, EXCEPT FUELS—Con.													
144	Sand and gravel													
	Establishments.....number...	18	17	3	-	3	-	4	-	4	-	-	10	1
	Employees.....1,000...	.1	(D)	(Z)	-	(Z)	-	(Z)	-	(Z)	-	-	(D)	(D)
	Value added in mining.....mil. dol...	3.1	(D)	1.2	-	1.2	-	1.4	-	1.4	-	-	(D)	(D)
145	Clay, ceramic, and refractory minerals													
	Establishments.....number...	1	1	1	-	1	-	-	-	-	-	-	-	-
	Employees.....1,000...	(Z)	(Z)	(Z)	-	(Z)	-	-	-	-	-	-	-	-
	Value added in mining.....mil. dol...	(Z)	(Z)	(Z)	-	(Z)	-	-	-	-	-	-	-	-
147	Chemical and fertilizer mineral mining													
	Establishments.....number...	7	7	-	-	-	-	7	7	-	-	-	-	-
	Employees.....1,000...	2.6	2.6	-	-	-	-	2.6	2.6	-	-	-	-	-
	Value added in mining.....mil. dol...	117.1	117.1	-	-	-	-	117.1	117.1	-	-	-	-	-
148	Nonmetallic minerals services													
	Establishments.....number...	4	4	-	-	-	-	-	-	-	-	-	4	-
	Employees.....1,000...	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
	Value added in mining.....mil. dol...	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
149	Miscellaneous nonmetallic minerals													
	Establishments.....number...	11	11	2	-	2	-	9	-	9	-	-	-	-
	Employees.....1,000...	(D)	(D)	(D)	-	(D)	-	(D)	-	(D)	-	-	-	-
	Value added in mining.....mil. dol...	(D)	(D)	(D)	-	(D)	-	(D)	-	(D)	-	-	-	-

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4a. Summary Statistics for the State: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Item	1982	Item	1982
Establishments during year ----- number	1 581	Cost of supplies ----- mil. dol..	3 979.8
With 0 to 19 employees ----- do..	1 333	Supplies used, minerals received, and purchased machinery installed ----- do..	3 106.8
With 20 to 99 employees ----- do..	196	Resales ----- do..	10.1
With 100 employees or more ----- do..	52	Purchased fuels consumed ----- do..	121.9
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	26.6	Quantity ----- mil. kWh..	2 421.2
Payroll for year ----- mil. dol..	660.0	Cost ----- mil. dol..	134.7
		Electric energy generated less sold ----- mil. kWh..	(D)
		Contract work ----- mil. dol..	606.2
Production, development, and exploration workers:		Cost of purchased communication services ----- do..	6.0
Average for year ----- 1,000..	20.5	Value of shipments and receipts ----- do..	9 683.3
March ----- do..	23.3	Value of resales ----- do..	11.9
May ----- do..	21.2	Capital expenditures during year (except land and mineral rights) ----- do..	1 423.3
August ----- do..	19.2	New capital expenditures during year ----- do..	646.9
November ----- do..	18.5	Buildings and other structures, except land ----- do..	41.1
Hours ----- millions..	43.4	Machinery and equipment ----- do..	605.8
January to March ----- do..	12.4	Used capital expenditures during year ----- do..	22.9
April to June ----- do..	11.0	Buildings and other structures, except land ----- do..	6.5
July to September ----- do..	10.1	Machinery and equipment ----- do..	16.4
October to December ----- do..	9.8	Mineral exploration and development ¹ ----- do..	753.4
Wages ----- mil. dol..	497.1	Rental payments during year ----- do..	45.5
Supplemental labor costs not included in payroll ----- do..	158.4	Buildings and other structures, except land ----- do..	7.2
Legally required expenditures, including Social Security contributions ----- do..	64.1	Machinery and equipment ----- do..	38.3
Payments for voluntary programs ----- do..	94.3	Expensed mineral exploration, development, land, and rights ² ----- do..	343.1
Value added by mining ----- do..	7 126.7		

¹Excludes data for mining service industries and natural gas liquids industry where data were not collected.²Excludes data for mineral land and rights for the crude petroleum and natural gas industry where data were not collected.

Table 4b. Inventories for the State: End of 1981 and 1982

[Million dollars. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Item	End of 1981	End of 1982
Total inventories¹ -----	543.6	481.9
Detail by method of valuation:		
Subject to LIFO costing ² -----	43.0	34.7
LIFO reserve -----	14.2	10.6
LIFO value -----	28.8	24.1
Not subject to LIFO costing -----	373.0	323.2
Valuation method not reported ³ -----	127.6	123.9
Amount subject to LIFO reported without associated reserve and value ⁴ -----	.1	.1

¹Beginning in the 1982 economic censuses, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.²Only includes data reported by respondents who (a) indicated amount of inventories subject to LIFO cost, and (b) provided sufficient information to determine associated LIFO reserve and value figures.³Includes data estimated for nonresponse and nonmail administrative records and data reported by respondents who provided total inventory figures without other information.⁴Includes data reported by respondents who indicated their inventories were subject to LIFO cost but did not provide associated LIFO reserve and value figures.

Table 5. Industry Group Statistics for Counties: 1982 and 1977

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group ¹	1982											1977		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)	
		E ²	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	New Mexico -----	-	1 581	248	26.6	660.0	20.5	43.4	497.1	7 126.7	3 979.8	9 683.3	1 423.3	23.5	2 688.7
	Chaves County -----	E2	181	15	1.3	31.6	1.0	2.0	22.1	323.7	134.6	338.9	119.4	.3	27.6
13	Oil and gas extraction -----	E2	177	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas -----	E2	91	6	.4	10.3	.2	.4	5.5	275.0	102.5	271.4	106.1	.1	24.7
138	Oil and gas field services -----	E2	86	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Cibola County -----	E1	21	7	2.3	59.7	1.9	3.8	43.3	106.0	122.4	191.0	37.4	(NA)	(NA)
10	Metal mining -----	-	12	6	2.2	58.1	1.8	3.7	42.2	101.0	119.2	183.8	36.4	(NA)	(NA)
109	Miscellaneous metal ores -----	-	10	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction -----	E6	8	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group ¹	1982											1977		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)	
		Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)							
E ²															
	New Mexico—Con. Colfax County	E9	6	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
12	Bituminous coal and lignite mining	E9	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining	E9	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Curry County	E1	12	1	.1	2.6	.1	.2	1.8	10.6	2.0	7.9	4.7	(NA)	(NA)
13	Oil and gas extraction	-	11	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services	-	10	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Eddy County	-	262	42	5.3	128.1	4.0	8.4	92.2	1 535.6	567.4	1 837.7	265.3	4.1	563.8
13	Oil and gas extraction	-	253	35	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	455.6
131	Crude petroleum and natural gas	-	122	7	.7	17.8	.5	.9	11.8	1 239.2	253.7	1 283.5	209.4	.3	392.3
132	Natural gas liquids	-	8	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	23.6
138	Oil and gas field services	E2	123	25	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	39.7
14	Nonmetallic minerals, except fuels	-	9	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
147	Chemical and fertilizer mineral mining	-	7	7	2.6	66.1	2.0	3.9	45.2	117.1	109.6	203.9	22.8	(NA)	(NA)
	Grant County	-	20	5	1.1	31.8	.9	1.6	24.2	37.2	(D)	96.7	(D)	2.4	102.1
10	Metal mining	-	13	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
102	Copper ores	-	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction	-	5	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services	-	3	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Lea County	-	467	94	7.3	166.3	5.7	12.6	129.4	2 758.3	1 339.7	3 718.2	379.8	5.5	900.1
13	Oil and gas extraction	-	467	94	7.3	166.3	5.7	12.6	129.4	2 758.3	1 339.7	3 718.2	379.8	(NA)	(NA)
131	Crude petroleum and natural gas	-	194	18	1.8	50.6	1.3	2.7	35.8	2 162.3	514.7	2 365.3	311.7	1.1	634.7
132	Natural gas liquids	-	19	11	.6	14.8	.5	1.0	13.9	357.1	710.1	1 053.7	13.5	.5	158.4
138	Oil and gas field services	E2	254	65	4.9	101.0	3.8	8.9	79.7	238.9	114.9	299.2	54.6	(NA)	(NA)
	Lincoln County	-	14	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction	-	10	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas	-	6	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	McKinley County	-	32	12	1.5	46.5	1.1	2.5	32.8	257.1	103.7	330.4	30.3	3.5	208.3
10	Metal mining	-	8	7	.7	20.9	.5	1.1	14.0	51.0	(D)	57.1	(D)	2.9	125.5
109	Miscellaneous metal ores	-	7	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
12	Bituminous coal and lignite mining	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction	-	20	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas	-	6	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
132	Natural gas liquids	-	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Rio Arriba County	-	64	10	.6	15.1	.5	.9	11.7	293.5	97.2	309.7	80.9	.5	161.8
13	Oil and gas extraction	-	64	10	.6	15.1	.5	.9	11.7	293.5	97.2	309.7	80.9	.5	161.8
131	Crude petroleum and natural gas	-	43	2	.1	3.8	.1	.2	2.4	271.3	74.8	278.2	68.0	.3	155.5
138	Oil and gas field services	E1	21	8	.5	11.3	.4	.7	9.3	22.2	22.4	31.6	12.9	.1	6.3
	Roosevelt County	-	74	6	.4	9.1	.3	.8	7.1	80.6	49.7	106.6	23.8	.1	18.8
13	Oil and gas extraction	-	74	6	.4	9.1	.3	.8	7.1	80.6	49.7	106.6	23.8	.1	18.8
131	Crude petroleum and natural gas	-	41	-	(Z)	1.0	(Z)	.1	.4	47.0	8.7	41.2	14.6	(NA)	(NA)
132	Natural gas liquids	-	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services	E1	32	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Sandoval County	-	32	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	11.1
13	Oil and gas extraction	-	30	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	10.1
131	Crude petroleum and natural gas	-	14	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group ¹	1982											1977		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)	
		Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)							
		E ²													
	New Mexico—Con.														
	San Juan County	-	193	38	4.0	103.6	3.1	6.7	82.0	1 472.2	1 160.8	2 461.7	171.4	2.8	539.5
12	Bituminous coal and lignite mining	-	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining	-	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction	-	186	36	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas	-	72	9	1.0	28.0	.7	1.4	20.3	971.8	149.9	1 014.9	106.8	.6	321.7
132	Natural gas liquids	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services	E3	110	24	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Santa Fe County	E4	35	3	.2	3.6	.1	.3	2.4	29.3	13.0	40.9	1.4	.2	.6
10	Metal mining	-	5	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
104	Gold and silver ores	-	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels	-	5	2	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
149	Miscellaneous nonmetallic minerals	-	4	2	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Sierra County	-	15	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
10	Metal mining	-	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
104	Gold and silver ores	-	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
108	Metal mining services	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Torrance County	-	5	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction	-	4	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Union County	-	17	2	.1	2.7	.1	.2	2.2	9.4	(D)	7.9	(D)	(NA)	(NA)
13	Oil and gas extraction	-	16	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services	-	14	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

¹County data shown in this table are limited to counties or industry groups with a value of shipments and receipts greater than \$5 million.²Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.³Some statistics for counties or industry groups with a value of shipments and receipts greater than \$5 million are withheld to avoid disclosing data for individual companies. However, for such counties and industry groups, number of establishments is shown and employment size range is indicated by one of the following symbols: ZZ—less than 100 employees; AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 6. Number of Mineral Establishments in Major Groups by Employment Size Class for Counties: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
New Mexico	1 581	85	-	15	1 438	43	New Mexico—Con.						
0 to 4 employees	953	44	-	5	885	19	Catron County	2	1	-	-	1	-
5 to 9 employees	196	10	-	2	181	3	0 to 19 employees	2	1	-	-	1	-
10 to 19 employees	184	8	-	2	163	11	Chaves County	181	1	-	-	177	3
20 to 49 employees	141	7	-	-	130	4	0 to 19 employees	166	1	-	-	162	3
50 to 99 employees	55	5	-	1	49	-	20 to 99 employees	14	-	-	-	14	-
100 to 249 employees	37	5	-	2	28	2	100 to 249 employees	1	-	-	-	1	-
250 to 499 employees	9	4	-	2	2	1	Cibola County	21	12	-	-	8	1
500 to 999 employees	6	2	-	1	-	3	0 to 19 employees	14	6	-	-	7	1
Bernalillo County	61	19	-	4	33	5	20 to 99 employees	3	2	-	-	1	-
0 to 19 employees	55	18	-	3	29	5	100 to 249 employees	1	1	-	-	-	-
20 to 99 employees	6	1	-	1	4	-	250 employees or more	3	3	-	-	-	-

Table 6. Number of Mineral Establishments in Major Groups by Employment Size Class for Counties: 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
New Mexico—Con.							New Mexico—Con.						
Colfax County	6	-	-	1	3	2	Mora County	2	-	-	-	2	-
0 to 19 employees.....	5	-	-	-	3	2	0 to 19 employees.....	2	-	-	-	2	-
250 employees or more	1	-	-	1	-	-	Otero County	2	-	-	-	1	1
Curry County	12	-	-	-	11	1	0 to 19 employees.....	2	-	-	-	1	1
0 to 19 employees.....	11	-	-	-	10	1	Quay County	6	-	-	-	6	-
20 to 99 employees	1	-	-	-	1	-	0 to 19 employees.....	6	-	-	-	6	-
De Baca County	8	-	-	-	7	1	Rio Arriba County	64	-	-	-	64	-
0 to 19 employees.....	8	-	-	-	7	1	0 to 19 employees.....	54	-	-	-	54	-
Dona Ana County	9	-	-	-	5	4	20 to 99 employees	10	-	-	-	10	-
0 to 19 employees.....	9	-	-	-	5	4	Roosevelt County	74	-	-	-	74	-
Eddy County	262	-	-	-	253	9	0 to 19 employees.....	68	-	-	-	68	-
0 to 19 employees.....	220	-	-	-	218	2	20 to 99 employees	6	-	-	-	6	-
20 to 99 employees	32	-	-	-	31	1	Sandoval County	32	1	-	-	30	1
100 to 249 employees	6	-	-	-	4	2	0 to 19 employees.....	32	1	-	-	30	1
250 employees or more	4	-	-	-	-	4	San Juan County	193	1	-	5	186	1
Grant County	20	13	-	-	5	2	0 to 19 employees.....	155	1	-	3	150	1
0 to 19 employees.....	15	9	-	-	4	2	20 to 99 employees	27	-	-	-	27	-
20 to 99 employees	2	1	-	-	1	-	100 to 249 employees	9	-	-	1	8	-
100 to 249 employees	1	1	-	-	-	-	250 employees or more	2	-	-	1	1	-
250 employees or more	2	2	-	-	-	-	San Miguel County	1	-	-	-	-	1
Guadalupe County	6	-	-	-	6	-	0 to 19 employees.....	1	-	-	-	-	1
0 to 19 employees.....	6	-	-	-	6	-	Santa Fe County	35	5	-	1	24	5
Harding County	3	-	-	-	2	1	0 to 19 employees.....	32	4	-	1	24	3
0 to 19 employees.....	3	-	-	-	2	1	20 to 99 employees	3	1	-	-	-	2
Hidalgo County	3	1	-	-	2	-	Sierra County	15	8	-	-	7	-
0 to 19 employees.....	3	1	-	-	2	-	0 to 19 employees.....	13	6	-	-	7	-
Lea County	467	-	-	-	467	-	20 to 99 employees	1	1	-	-	-	-
0 to 19 employees.....	373	-	-	-	373	-	100 to 249 employees	1	1	-	-	-	-
20 to 99 employees	78	-	-	-	78	-	Socorro County	7	3	-	-	3	1
100 to 249 employees	15	-	-	-	15	-	0 to 19 employees.....	7	3	-	-	3	1
250 employees or more	1	-	-	-	1	-	Taos County	6	2	-	-	2	2
Lincoln County	14	4	-	-	10	-	0 to 19 employees.....	5	1	-	-	2	2
0 to 19 employees.....	13	4	-	-	9	-	250 employees or more	1	1	-	-	-	-
20 to 99 employees	1	-	-	-	1	-	Torrance County	5	1	-	-	4	-
Luna County	7	2	-	-	5	-	0 to 19 employees.....	4	1	-	-	3	-
0 to 19 employees.....	6	1	-	-	5	-	20 to 99 employees	1	-	-	-	1	-
20 to 99 employees	1	1	-	-	-	-	Union County	17	-	-	-	16	1
McKinley County	32	8	-	4	20	-	0 to 19 employees.....	15	-	-	-	15	-
0 to 19 employees.....	20	1	-	2	17	-	20 to 99 employees	2	-	-	-	1	1
20 to 99 employees	8	5	-	-	3	-	Valencia County	8	3	-	-	4	1
100 to 249 employees	3	2	-	1	-	-	0 to 19 employees.....	8	3	-	-	4	1
250 employees or more	1	-	-	1	-	-							

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SUMMARY OF FINDINGS

The total value of shipments and receipts for the 788 establishments classified in mineral industries in Utah amounted to \$2,701 million in 1982, or 1 percent of the Nation's total. This compares to \$1,270 million in 1977 when it also was 1 percent of the Nation's total. Value added by mining amounted to \$1,665 million in 1982, and payroll in mining amounted to \$467 million. All dollar figures shown are in current dollars for the years specified and have not been adjusted for changes in price levels.

When making comparisons to prior years, users should take into consideration the inflation that has occurred.

Mineral industries employment in Utah was 17.5 thousand in 1982, an increase of 5 percent over 1977. It accounted for 2 percent of the Nation's total. Oil and gas extraction led all other mineral industries in the State, accounting for 33 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1982 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Kind of operation and year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
Mineral industries:											
1982 ¹	2788	2121	17.5	466.8	13.6	27.4	355.0	1 664.8	1 660.4	2 700.9	624.3
1977 ¹	429	100	16.7	269.3	11.7	23.1	183.0	910.7	625.9	1 270.3	266.3
1972 ¹	308	75	11.4	116.5	8.9	17.6	87.3	372.3	319.3	576.7	114.8
1967 ¹	308	66	8.5	65.7	6.7	13.4	48.3	233.7	178.1	357.5	54.3
1963	384	71	10.7	68.8	9.1	17.3	55.6	267.8	209.2	423.8	53.3
1958	450	79	14.0	79.9	11.6	22.9	62.9	246.2	247.0	428.0	65.1
Excluding oil and gas extraction industries:											
1982 ¹	191	40	11.7	326.3	9.3	18.0	254.0	624.2	641.2	1 040.5	224.9
1977 ¹	214	55	12.7	210.4	9.5	18.4	149.4	515.2	412.5	779.1	148.7
1972 ¹	189	45	9.2	96.3	7.1	13.8	70.6	239.0	210.5	427.4	22.0
1967 ¹	211	47	7.5	59.1	5.9	11.8	43.0	157.1	140.6	267.1	30.7
1963	291	53	9.5	60.8	8.2	15.3	50.1	170.6	154.8	301.6	23.9
1958 ³	371	57	12.1	68.2	10.2	19.4	54.8	177.1	179.1	337.2	19.0

Note: For data prior to 1958, see 1963 Census of Mineral Industries, volume II.

¹Beginning with 1967, data for single-unit establishments without paid employees were excluded from the census.

²Not comparable to prior years. See Introduction for further explanation.

³Includes data for mining operations at manufacturing locations.

Table 2a. Mineral Establishment Statistics by Industry for the State: 1982 and 1977

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and industry	1982											1977		
		E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
	All mineral Industries ----	E1	788	121	17.5	466.8	13.6	27.4	355.0	1 664.8	1 660.4	2 700.9	624.3	16.7	910.7
10	Metal mining-----	-	105	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.0	274.2
1021	Copper ores-----	-	11	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
104	Gold and silver ores -----	E9	15	1	.1	2.6	.1	.1	1.3	37.7	(D)	3.7	(D)	BB	(D)
1041	Gold ores -----	E9	10	1	.1	1.9	(Z)	.1	.7	36.6	(D)	2.0	(D)	(NA)	(NA)
1081	Metal mining services -----	E1	22	2	.1	3.3	.1	.2	1.9	4.8	2.5	6.7	.6	BB	(D)
109	Miscellaneous metal ores -----	E1	41	5	.7	17.8	.5	1.0	12.7	15.0	46.3	53.2	8.0	CC	(D)
1094	Uranium-radium-vanadium ores -----	E1	27	5	.7	17.4	.5	1.0	12.3	13.8	45.8	51.8	7.8	.7	30.9
12	Bituminous coal and lignite mining -----	E1	29	18	5.3	144.3	4.3	8.0	111.5	370.9	235.7	519.6	87.0	3.4	178.8
121	Bituminous coal and lignite mining -----	E1	29	18	5.3	144.3	4.3	8.0	111.5	370.9	235.7	519.6	87.0	3.4	178.8
1211	Bituminous coal and lignite --	E1	23	18	5.3	143.9	4.3	7.9	111.2	370.2	(D)	518.6	(D)	3.4	178.2
13	Oil and gas extraction -----	E1	597	81	5.8	140.5	4.3	9.3	100.9	1 040.6	1 019.2	1 660.5	399.4	4.1	405.3
1311	Crude petroleum and natural gas-----	E1	224	26	1.7	47.7	.9	1.9	24.2	691.5	679.0	1 030.6	339.9	1.9	304.2
1321	Natural gas liquids -----	-	11	2	.1	4.2	.1	.3	3.9	103.0	231.1	330.5	3.5	.1	19.2
138	Oil and gas field services -----	E2	362	53	3.9	88.6	3.3	7.1	72.9	246.2	109.1	299.3	56.0	2.1	81.9
1381	Drilling oil and gas wells -----	E1	97	18	1.2	29.2	1.1	2.3	25.4	85.1	36.5	94.9	26.7	.6	24.1
1382	Oil and gas field exploration services -----	E2	68	6	.5	7.9	.4	.9	6.6	19.9	10.6	26.9	3.6	.5	8.7
1389	Oil and gas field services, n.e.c. -----	E3	197	29	2.2	51.5	1.8	3.9	41.0	141.1	62.0	177.5	25.6	1.0	49.2
14	Nonmetallic minerals, except fuels -----	-	57	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	52.4
142	Crushed and broken stone, including riprap -----	E3	8	2	.1	2.1	.1	.2	1.8	3.9	1.7	5.2	.4	(NA)	(NA)
147	Chemical and fertilizer mineral mining -----	-	11	4	.7	16.0	.5	1.1	11.1	68.3	39.8	87.7	20.4	.6	35.1
1474	Potash, soda, and borate minerals -----	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	22.0
1475	Phosphate rock -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
149	Miscellaneous nonmetallic minerals -----	-	11	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	9.4
1499	Miscellaneous nonmetallic minerals, n.e.c. -----	-	9	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)

See footnotes at end of table.

Table 2a. Mineral Establishment Statistics by Industry for the State: 1982 and 1977—Con.

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries and industry groups are withheld to avoid disclosing data for individual companies. However, for such industries and industry groups with 100 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1982

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s. tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures	13	.3	3.5	4.7	(X)
Crushed and broken stone, including riprap	4	(D)	(D)	(D)	(D)
Crushed and broken limestone	4	(D)	(D)	(D)	(D)
Sand and gravel	7	.3	2.6	3.2	2 958.5

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of estab- lish- ments	Producing establishments											Nonpro- duc- ing estab- lish- ments
			Total	Mines only				Mines with preparation plants				Seps- arately operated prepara- tion plants	Undis- tributed¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods			
	ALL MINERAL INDUSTRIES													
	Establishments.....number...	788	749	239	36	14	189	44	15	21	8	17	449	39
	Employees1,000...	17.5	16.6	5.1	1.6	2.1	1.4	5.2	(D)	(D)	.6	1.6	4.7	.8
	Value added in mining mil. dol...	1 664.8	1 621.9	871.3	124.5	50.6	696.3	322.9	(D)	(D)	37.9	170.2	257.6	42.9
10	METAL MINING													
	Establishments.....number...	105	91	33	26	7	-	1	-	1	-	3	54	14
	Employees1,000...	(D)	(D)	(D)	(D)	(D)	-	(Z)	-	(Z)	-	(D)	(D)	(D)
	Value added in mining mil. dol...	(D)	(D)	(D)	(D)	(D)	-	(Z)	-	(Z)	-	(D)	(D)	(D)
101	Iron ores													
	Establishments.....number...	4	2	2	-	2	-	-	-	-	-	-	-	2
	Employees1,000...	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	(D)
	Value added in mining mil. dol...	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	(D)
102	Copper ores													
	Establishments.....number...	11	9	5	-	5	-	-	-	-	-	1	3	2
	Employees1,000...	(D)	(D)	(D)	-	(D)	-	-	-	-	-	(D)	(D)	(D)
	Value added in mining mil. dol...	(D)	(D)	(D)	-	(D)	-	-	-	-	-	(D)	-	(D)
103	Lead and zinc ores													
	Establishments.....number...	6	4	4	4	-	-	-	-	-	-	-	-	2
	Employees1,000...	(D)	(D)	(D)	(D)	-	-	-	-	-	-	-	-	(D)
	Value added in mining mil. dol...	(D)	(D)	(D)	(D)	-	-	-	-	-	-	-	-	(D)
104	Gold and silver ores													
	Establishments.....number...	15	13	5	5	-	-	1	-	1	-	-	7	2
	Employees1,000...	.1	(D)	(D)	(D)	-	-	(Z)	-	(Z)	-	-	(D)	(D)
	Value added in mining mil. dol...	37.7	(D)	(D)	(D)	-	-	(Z)	-	(Z)	-	-	(D)	(D)

See footnotes at end of table.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1982—
Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of estab- lish- ments	Producing establishments										Nonpro- ducing estab- lish- ments	
			Total	Mines only				Mines with preparation plants				Sepsa- rately operated prepara- tion plants		Undistri- buted¹
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods			
10	METAL MINING—Con.													
106	Ferroalloy ores, except vanadium													
	Establishments.....number..	6	6	-	-	-	-	-	-	-	-	-	6	-
	Employees.....1,000.....	(Z)	(Z)	-	-	-	-	-	-	-	-	-	(Z)	-
	Value added in mining.....mil. dol....	.3	.3	-	-	-	-	-	-	-	-	-	.3	-
108	Metal mining services													
	Establishments.....number..	22	22	-	-	-	-	-	-	-	-	-	22	-
	Employees.....1,000.....	.1	.1	-	-	-	-	-	-	-	-	-	.1	-
	Value added in mining.....mil. dol....	4.8	4.8	-	-	-	-	-	-	-	-	-	4.8	-
109	Miscellaneous metal ores													
	Establishments.....number..	41	35	17	17	-	-	-	-	-	-	2	16	6
	Employees.....1,000.....	.7	(D)	.3	.3	-	-	-	-	-	-	(D)	(Z)	(D)
	Value added in mining.....mil. dol....	15.0	(D)	16.0	16.0	-	-	-	-	-	-	(D)	1.2	(D)
12	BITUMINOUS COAL AND LIGNITE MINING													
	Establishments.....number..	29	29	10	10	-	-	10	10	-	-	2	7	-
	Employees.....1,000.....	5.3	5.3	(D)	(D)	-	-	4.0	4.0	-	-	(D)	(Z)	-
	Value added in mining.....mil. dol....	370.9	370.9	(D)	(D)	-	-	245.3	245.3	-	-	(D)	.7	-
121	Bituminous coal and lignite mining													
	Establishments.....number..	29	29	10	10	-	-	10	10	-	-	2	7	-
	Employees.....1,000.....	5.3	5.3	(D)	(D)	-	-	4.0	4.0	-	-	(D)	(Z)	-
	Value added in mining.....mil. dol....	370.9	370.9	(D)	(D)	-	-	245.3	245.3	-	-	(D)	.7	-
13	OIL AND GAS EXTRACTION													
	Establishments.....number..	597	572	189	-	-	189	4	-	-	4	11	368	25
	Employees.....1,000.....	5.8	(D)	1.4	-	-	1.4	(D)	-	-	(D)	.1	(D)	(D)
	Value added in mining.....mil. dol....	1 040.6	(D)	696.3	-	-	696.3	(D)	-	-	(D)	103.0	246.2	(D)
131	Crude petroleum and natural gas													
	Establishments.....number..	224	199	189	-	-	189	4	-	-	4	-	6	25
	Employees.....1,000.....	1.7	(D)	1.4	-	-	1.4	(D)	-	-	(D)	-	(D)	(D)
	Value added in mining.....mil. dol....	691.5	(D)	696.3	-	-	696.3	(D)	-	-	(D)	-	-	(D)
132	Natural gas liquids													
	Establishments.....number..	11	11	-	-	-	-	-	-	-	-	11	-	-
	Employees.....1,000.....	.1	.1	-	-	-	-	-	-	-	-	.1	-	-
	Value added in mining.....mil. dol....	103.0	103.0	-	-	-	-	-	-	-	-	103.0	-	-
138	Oil and gas field services													
	Establishments.....number..	362	362	-	-	-	-	-	-	-	-	-	362	-
	Employees.....1,000.....	3.9	3.9	-	-	-	-	-	-	-	-	-	3.9	-
	Value added in mining.....mil. dol....	246.2	246.2	-	-	-	-	-	-	-	-	-	246.2	-

See footnotes at end of table.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1982—
Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of estab- lish- ments	Producing establishments										Nonpro- ducing estab- lish- ments	
			Total	Mines only				Mines with preparation plants				Sepsa- rately operated prepara- tion plants		Undistri- buted¹
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods			
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments.....number...	57	57	7	-	7	-	29	5	20	4	1	20	-
	Employees.....1,000...	(D)	(D)	(D)	-	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
	Value added in mining.....mil. dol...	(D)	(D)	(D)	-	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	-
142	Crushed and broken stone, including riprap													
	Establishments.....number...	8	8	-	-	-	-	8	-	8	-	-	-	-
	Employees.....1,000...	.1	.1	-	-	-	-	.1	-	.1	-	-	-	-
	Value added in mining.....mil. dol...	3.9	3.9	-	-	-	-	3.9	-	3.9	-	-	-	-
144	Sand and gravel													
	Establishments.....number...	20	20	-	-	-	-	6	-	6	-	-	14	-
	Employees.....1,000...	.1	.1	-	-	-	-	(Z)	-	(Z)	-	-	(Z)	-
	Value added in mining.....mil. dol...	3.0	3.0	-	-	-	-	1.1	-	1.1	-	-	1.9	-
145	Clay, ceramic, and refractory minerals													
	Establishments.....number...	2	2	-	-	-	-	2	-	1	1	-	-	-
	Employees.....1,000...	(D)	(D)	-	-	-	-	(D)	-	(D)	(D)	-	-	-
	Value added in mining.....mil. dol...	(D)	(D)	-	-	-	-	(D)	-	(D)	(D)	-	-	-
147	Chemical and fertilizer mineral mining													
	Establishments.....number...	11	11	6	-	6	-	4	-	1	3	1	-	-
	Employees.....1,000...	.7	.7	(Z)	-	(Z)	-	(D)	-	(D)	(D)	(D)	-	-
	Value added in mining.....mil. dol...	68.3	68.3	2.9	-	2.9	-	(D)	-	(D)	(D)	(D)	-	-
148	Nonmetallic minerals services													
	Establishments.....number...	5	5	-	-	-	-	-	-	-	-	-	5	-
	Employees.....1,000...	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
	Value added in mining.....mil. dol...	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
149	Miscellaneous nonmetallic minerals													
	Establishments.....number...	11	11	1	-	1	-	9	5	4	-	-	1	-
	Employees.....1,000...	(D)	(D)	(D)	-	(D)	-	(D)	(D)	(D)	-	-	(Z)	-
	Value added in mining.....mil. dol...	(D)	(D)	(D)	-	(D)	-	(D)	(D)	(D)	-	-	-	-

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4a. Summary Statistics for the State: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Item	1982	Item	1982
Establishments during year ----- number ..	788	Cost of supplies ----- mil. dol ..	1 660.4
With 0 to 19 employees ----- do ..	667	Supplies used, minerals received, and purchased machinery installed ----- do ..	1 114.3
With 20 to 99 employees ----- do ..	92	Resales ----- do ..	(D)
With 100 employees or more ----- do ..	29	Purchased fuels consumed ----- do ..	53.6
All employees:		Purchased electric energy:	
Average for year ----- 1,000 ..	17.5	Quantity ----- mil. kWh ..	1 735.4
Payroll for year ----- mil. dol ..	466.8	Cost ----- mil. dol ..	64.0
		Electric energy generated less sold ----- mil. kWh ..	(D)
		Contract work ----- mil. dol ..	(D)
Production, development, and exploration workers:		Cost of purchased communication services ----- do ..	3.1
Average for year ----- 1,000 ..	13.6	Value of shipments and receipts ----- do ..	2 700.9
March ----- do ..	15.2	Value of resales ----- do ..	(D)
May ----- do ..	14.2		
August ----- do ..	13.2	Capital expenditures during year (except land and mineral rights) ----- do ..	624.3
November ----- do ..	11.9	New capital expenditures during year ----- do ..	253.1
Hours ----- millions ..	27.4	Buildings and other structures, except land ----- do ..	77.4
January to March ----- do ..	7.8	Machinery and equipment ----- do ..	175.6
April to June ----- do ..	7.2		
July to September ----- do ..	6.4	Used capital expenditures during year ----- do ..	7.9
October to December ----- do ..	5.9	Buildings and other structures, except land ----- do ..	.3
		Machinery and equipment ----- do ..	7.7
Wages ----- mil. dol ..	355.0	Mineral exploration and development ¹ ----- do ..	363.2
Supplemental labor costs not included in payroll ----- do ..	139.8	Rental payments during year ----- do ..	30.3
Legally required expenditures, including Social Security contributions ----- do ..	49.5	Buildings and other structures, except land ----- do ..	6.4
Payments for voluntary programs ----- do ..	90.4	Machinery and equipment ----- do ..	23.9
Value added by mining ----- do ..	1 664.8	Expensed mineral exploration, development, land, and rights ^{1 2} ----- do ..	390.0

¹Excludes data for mining service industries and natural gas liquids industry where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industry where data were not collected.

Table 4b. Inventories for the State: End of 1981 and 1982

[Million dollars. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Item	End of 1981	End of 1982
Total Inventories¹ -----	211.8	238.1
Detail by method of valuation:		
Subject to LIFO costing ² -----	9.6	10.0
LIFO reserve -----	1.2	.8
LIFO value -----	8.4	9.1
Not subject to LIFO costing -----	139.4	151.2
Valuation method not reported ³ -----	62.8	77.0
Amount subject to LIFO reported without associated reserve and value ⁴ -----	(Z)	-

¹Beginning in the 1982 economic censuses, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

²Only includes data reported by respondents who (a) indicated amount of inventories subject to LIFO cost, and (b) provided sufficient information to determine associated LIFO reserve and value figures.

³Includes data estimated for nonresponse and nonmail administrative records and data reported by respondents who provided total inventory figures without other information.

⁴Includes data reported by respondents who indicated their inventories were subject to LIFO cost but did not provide associated LIFO reserve and value figures.

Table 5. Industry Group Statistics for Counties: 1982 and 1977

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group ¹	1982											1977		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees (1,000)	Value added by mining (million dollars)	
		E ²	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
12	Utah -----	E1	788	121	17.5	466.8	13.6	27.4	355.0	1 664.8	1 660.4	2 700.9	624.3	16.7	910.7
	Carbon County -----	E1	30	13	3.0	83.7	2.5	4.8	65.9	196.0	236.4	359.9	72.5	2.1	123.7
121	Bituminous coal and lignite mining -----	E2	16	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	121.0
	Bituminous coal and lignite mining -----	E2	16	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	121.0
13	Oil and gas extraction -----	-	14	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
132	Natural gas liquids -----	-	1	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Duchesne County -----	E1	93	24	1.3	31.6	1.1	2.3	25.5	249.9	148.4	326.2	72.1	.8	163.2
	Oil and gas extraction -----	E1	92	24	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	163.2
131	Crude petroleum and natural gas -----	E1	34	8	.3	8.9	.2	.5	6.3	189.5	96.9	224.9	61.5	.1	134.5
132	Natural gas liquids -----	-	3	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	E4	55	15	.9	21.1	.8	1.7	17.6	51.0	23.5	64.7	9.9	(NA)	(NA)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group ¹	1982											1977		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)	
		E ²	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
12	Utah—Con. Emery County -----	-	29	3	2.0	52.4	1.5	2.8	38.2	157.4	58.4	197.5	18.3	(NA)	(NA)
	Bituminous coal and lignite mining -----	-	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining -----	-	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction -----	-	22	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Garfield County -----	-	19	1	.1	2.1	.1	.2	1.7	19.2	11.4	23.1	7.5	(NA)	(NA)
13	Oil and gas extraction -----	-	16	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas -----	-	6	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	-	10	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Grand County -----	E1	67	5	.7	16.7	.5	1.0	10.9	78.5	84.1	147.7	15.0	.5	17.1
10	Metal mining -----	E1	11	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	9.0
109	Miscellaneous metal ores -----	E1	9	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction -----	E1	53	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas -----	E4	18	-	(Z)	.3	(Z)	(Z)	.1	23.2	8.0	23.7	7.4	(NA)	(NA)
132	Natural gas liquids -----	-	1	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	E2	34	2	.2	4.8	.2	.4	4.2	12.5	5.2	15.1	2.6	(NA)	(NA)
14	Nonmetallic minerals, except fuels -----	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
147	Chemical and fertilizer mineral mining -----	-	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Iron County -----	E2	13	2	.1	1.9	.1	.1	1.6	7.1	2.5	9.2	.5	.2	26.4
10	Metal mining -----	-	6	2	.1	1.6	.1	.1	1.4	4.6	(D)	5.9	(D)	.2	25.9
	Salt Lake County -----	E2	153	16	4.8	145.5	3.8	7.6	113.9	200.4	373.2	539.5	34.1	(NA)	(NA)
10	Metal mining -----	-	38	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
102	Copper ores -----	-	9	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
109	Miscellaneous metal ores -----	E6	10	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
12	Bituminous coal and lignite mining -----	E7	6	1	.1	1.0	.1	.1	.9	4.4	(D)	7.5	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining -----	E7	6	1	.1	1.0	.1	.1	.9	4.4	(D)	7.5	(D)	(NA)	(NA)
13	Oil and gas extraction -----	E6	90	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas -----	E9	46	6	.5	15.8	.1	.3	3.4	77.0	(D)	111.2	(D)	(NA)	(NA)
132	Natural gas liquids -----	-	4	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	E6	40	4	.3	4.4	.2	.5	3.2	13.6	5.4	16.9	2.1	(NA)	(NA)
14	Nonmetallic minerals, except fuels -----	E5	19	-	.1	1.8	.1	.1	1.5	3.9	1.7	5.1	.5	(NA)	(NA)
	San Juan County -----	-	67	8	.7	17.1	.6	1.1	14.6	235.4	104.1	289.8	49.7	.8	92.2
10	Metal mining -----	E2	11	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
109	Miscellaneous metal ores -----	E1	10	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction -----	-	54	6	.4	11.4	.4	.7	9.4	224.9	98.6	275.9	47.6	.4	69.9
131	Crude petroleum and natural gas -----	-	26	3	.2	5.9	.2	.3	4.5	212.8	74.2	242.1	44.9	.1	58.8
132	Natural gas liquids -----	-	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	E2	27	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Sevier County -----	-	11	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
12	Bituminous coal and lignite mining -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Summit County -----	E1	37	8	.7	18.4	.5	1.0	11.9	-14.0	(D)	234.9	(D)	.7	31.0
13	Oil and gas extraction -----	E1	34	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	22.9
131	Crude petroleum and natural gas -----	E1	10	2	.2	6.5	.1	.2	2.3	-63.7	(D)	137.4	(D)	(NA)	(NA)
132	Natural gas liquids -----	-	1	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	E3	23	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Tooele County -----	-	9	3	.7	17.6	.3	.8	7.7	57.9	(D)	8.8	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels -----	-	2	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group ¹	1982											1977	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)
		E ²	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
14	Utah—Con. Tooele County—Con. Nonmetallic minerals, except fuels—Con.													
147	Chemical and fertilizer mineral mining -----	-	1	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Uintah County -----	-	134	26	1.9	45.5	1.5	3.2	36.0	328.4	195.0	383.2	140.2	1.3
13	Oil and gas extraction -----	-	124	21	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	109.8
131	Crude petroleum and natural gas -----	-	35	6	.3	7.8	.2	.4	5.4	212.4	138.2	249.4	101.1	.1
138	Oil and gas field services -----	E2	89	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	67.3
14	Nonmetallic minerals, except fuels -----	-	7	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
147	Chemical and fertilizer mineral mining -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
149	Miscellaneous nonmetallic minerals -----	-	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	8.4
	Utah County -----	E3	24	2	.2	2.8	.1	.3	2.3	8.2	5.4	8.9	4.7	(NA)
	Wasatch County -----	-	10	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels -----	-	3	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
147	Chemical and fertilizer mineral mining -----	-	1	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Weber County -----	E4	9	2	.5	6.8	.3	.7	5.5	42.0	(D)	61.5	(D)	(NA)
13	Oil and gas extraction -----	E9	7	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas -----	E9	4	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
147	Chemical and fertilizer mineral mining -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

¹County data shown in this table are limited to counties or industry groups with a value of shipments and receipts greater than \$5 million.
²Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.
³Some statistics for counties or industry groups with a value of shipments and receipts greater than \$5 million are withheld to avoid disclosing data for individual companies. However, for such counties and industry groups, number of establishments is shown and employment size range is indicated by one of the following symbols: ZZ—less than 100 employees; AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 6. Number of Mineral Establishments in Major Groups by Employment Size Class for Counties: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Utah -----	788	105	-	29	597	57	Utah—Con.						
							Beaver County -----	6	2	-	-	4	-
0 to 4 employees -----	436	63	-	7	337	29	0 to 19 employees -----	6	2	-	-	4	-
5 to 9 employees -----	127	13	-	3	100	11							
10 to 19 employees -----	104	16	-	1	79	8	Box Elder County -----	2	1	-	-	-	1
20 to 49 employees -----	65	3	-	3	58	1	0 to 19 employees -----	2	1	-	-	-	1
50 to 99 employees -----	27	3	-	1	18	5							
							Cache County -----	2	-	-	-	2	-
100 to 249 employees -----	16	3	-	6	5	2	0 to 19 employees -----	1	-	-	-	1	-
250 to 499 employees -----	9	2	-	6	-	1	20 to 99 employees -----	1	-	-	-	1	-
500 to 999 employees -----	1	-	-	1	-	-							
1,000 to 2,499 employees -----	1	1	-	-	-	-							
2,500 employees or more -----	2	1	-	1	-	-							

Table 6. **Number of Mineral Establishments in Major Groups by Employment Size Class for Counties: 1982—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Utah—Con.							Utah—Con.						
Carbon County	30	-	-	16	14	-	Rich County	13	-	-	-	13	-
0 to 19 employees	17	-	-	3	14	-	0 to 19 employees	13	-	-	-	13	-
20 to 99 employees	3	-	-	3	-	-	Salt Lake County	153	38	-	6	90	19
100 to 249 employees	4	-	-	4	-	-	0 to 19 employees	137	33	-	5	80	19
250 employees or more	6	-	-	6	-	-	20 to 99 employees	11	2	-	1	8	-
Daggett County	7	-	-	-	7	-	100 to 249 employees	2	-	-	-	2	-
0 to 19 employees	7	-	-	-	7	-	250 employees or more	3	3	-	-	-	-
Davis County	11	3	-	1	5	2	San Juan County	67	11	-	-	54	2
0 to 19 employees	10	3	-	1	4	2	0 to 19 employees	59	9	-	-	48	2
20 to 99 employees	1	-	-	-	1	-	20 to 99 employees	7	1	-	-	6	-
Duchesne County	93	-	-	-	92	1	100 to 249 employees	1	1	-	-	-	-
0 to 19 employees	69	-	-	-	68	1	Sanpete County	6	-	-	-	4	2
20 to 99 employees	24	-	-	-	24	-	0 to 19 employees	5	-	-	-	3	2
Emery County	29	3	-	4	22	-	20 to 99 employees	1	-	-	-	1	-
0 to 19 employees	26	3	-	1	22	-	Sevier County	11	-	-	1	6	4
100 to 249 employees	2	-	-	2	-	-	0 to 19 employees	10	-	-	-	6	4
250 employees or more	1	-	-	1	-	-	250 employees or more	1	-	-	1	-	-
Garfield County	19	2	-	1	16	-	Summit County	37	1	-	-	34	2
0 to 19 employees	18	2	-	1	15	-	0 to 19 employees	29	1	-	-	26	2
20 to 99 employees	1	-	-	-	1	-	20 to 99 employees	6	-	-	-	6	-
Grand County	67	11	-	-	53	3	100 to 249 employees	2	-	-	-	2	-
0 to 19 employees	62	9	-	-	51	2	Tooele County	9	5	-	-	2	2
20 to 99 employees	3	-	-	-	2	1	0 to 19 employees	6	3	-	-	2	1
100 to 249 employees	2	2	-	-	-	-	20 to 99 employees	2	1	-	-	-	1
Iron County	13	6	-	-	5	2	250 employees or more	1	1	-	-	-	-
0 to 19 employees	11	4	-	-	5	2	Uintah County	134	3	-	-	124	7
20 to 99 employees	2	2	-	-	-	-	0 to 19 employees	108	3	-	-	103	2
Juab County	4	3	-	-	1	-	20 to 99 employees	23	-	-	-	20	3
0 to 19 employees	4	3	-	-	1	-	100 to 249 employees	3	-	-	-	1	2
Kane County	2	-	-	-	2	-	Utah County	24	9	-	-	11	4
0 to 19 employees	2	-	-	-	2	-	0 to 19 employees	22	9	-	-	10	3
Millard County	9	2	-	-	7	-	20 to 99 employees	2	-	-	-	1	1
0 to 19 employees	8	2	-	-	6	-	Wasatch County	10	-	-	-	7	3
20 to 99 employees	1	-	-	-	1	-	0 to 19 employees	9	-	-	-	6	3
Morgan County	3	-	-	-	3	-	20 to 99 employees	1	-	-	-	1	-
0 to 19 employees	3	-	-	-	3	-	Washington County	8	2	-	-	5	1
Plute County	4	2	-	-	2	-	0 to 19 employees	7	2	-	-	4	1
0 to 19 employees	3	2	-	-	1	-	20 to 99 employees	1	-	-	-	1	-
20 to 99 employees	1	-	-	-	1	-	Wayne County	6	-	-	-	5	1
							0 to 19 employees	6	-	-	-	5	1
							Weber County	9	1	-	-	7	1
							0 to 19 employees	7	1	-	-	6	-
							20 to 99 employees	1	-	-	-	1	-
							250 employees or more	1	-	-	-	-	1

Wyoming

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SUMMARY OF FINDINGS

The total value of shipments and receipts for the 2,101 establishments classified in mineral industries in Wyoming amounted to \$8,607 million in 1982, or 3 percent of the Nation's total. This compares to \$2,968 million in 1977 when it also was 3 percent of the Nation's total. Value added by mining amounted to \$6,859 million in 1982, and payroll in mining amounted to \$940 million. All dollar figures shown are in current dollars for the years specified and have not been adjusted for changes in

price levels. When making comparisons to prior years, users should take into consideration the inflation that has occurred.

Mineral industries employment in Wyoming was 34.2 thousand in 1982, an increase of 51 percent over 1977. It accounted for 3 percent of the Nation's total. Oil and gas extraction led all other mineral industries in the State, accounting for 60 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1982 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Kind of operation and year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
Mineral industries:											
1982 ¹ -----	22 101	2323	34.2	939.6	26.0	54.3	690.4	6 858.8	3 946.7	8 606.9	2 198.7
1977 ¹ ³ -----	786	184	22.7	403.7	17.9	38.6	304.9	2 282.0	1 516.6	2 967.5	831.1
1972 ¹ -----	507	119	11.5	120.0	9.1	19.1	90.7	678.5	388.7	886.7	180.5
1967 ¹ -----	447	99	8.7	64.8	6.8	14.3	47.2	501.8	214.5	625.9	90.4
1963 -----	532	101	8.7	60.9	6.6	14.1	43.8	453.1	183.8	560.6	76.3
1958 -----	489	86	8.5	48.5	6.0	11.9	30.6	342.4	128.6	404.9	66.1
Excluding oil and gas extraction industries:											
1982 ¹ -----	168	68	13.8	417.9	10.1	20.2	295.6	1 945.6	763.2	2 343.7	365.1
1977 ¹ ³ -----	173	70	12.3	223.9	9.7	20.9	168.4	852.8	587.2	1 073.4	366.7
1972 ¹ ³ -----	111	47	5.8	59.9	4.6	9.8	45.8	181.9	155.6	251.1	86.4
1967 ¹ ³ -----	95	35	3.6	26.5	2.9	6.1	20.5	94.6	50.7	123.1	22.2
1963 ² -----	130	41	3.5	22.8	2.7	5.9	17.5	84.4	48.2	125.7	6.7
1958 ² -----	145	23	2.5	12.3	2.0	3.8	9.6	44.0	35.0	66.6	12.3

Note: For data prior to 1958, see 1963 Census of Mineral Industries, volume II.

¹Beginning with 1967, data for single-unit establishments without paid employees were excluded from the census.

²Not comparable to prior years. See Introduction for further explanation.

³Includes data for mining operations at manufacturing locations.

Table 2a. Mineral Establishment Statistics by Industry for the State: 1982 and 1977

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and industry	1982											1977	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
	All mineral Industries ----	-	2 101	323	34.2	939.6	26.0	54.3	690.4	6 858.8	3 946.7	8 606.9	22.7	2 282.0
10	Metal mining -----	-	71	19	2.7	74.7	2.1	4.1	55.2	190.6	109.4	277.4	4.3	193.4
1011	Iron ores -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
109	Miscellaneous metal ores -----	-	36	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.1	151.7
1094	Uranium-radium-vanadium ores -----	-	34	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
12	Bituminous coal and lignite mining -----	-	49	30	6.1	199.3	4.5	8.8	144.0	1 285.3	399.1	1 501.7	3.4	376.9
121	Bituminous coal and lignite mining -----	-	49	30	6.1	199.3	4.5	8.8	144.0	1 285.3	399.1	1 501.7	3.4	376.9
1211	Bituminous coal and lignite -----	-	37	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8	344.5
1213	Bituminous coal and lignite mining services -----	-	12	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	32.4
13	Oil and gas extraction -----	-	1 933	255	20.4	521.7	15.8	34.1	394.9	4 913.2	3 183.5	6 263.2	10.4	1 433.2
1311	Crude petroleum and natural gas -----	-	738	52	5.0	150.4	3.0	6.4	91.9	3 759.9	1 833.5	4 321.8	2.8	1 083.6
1321	Natural gas liquids -----	-	31	7	.4	11.7	.4	.8	10.0	230.6	(D)	781.9	.4	64.7
138	Oil and gas field services -----	E2	1 164	196	15.0	359.5	12.4	26.9	293.0	922.7	(D)	1 159.5	(D)	284.9
1381	Drilling oil and gas wells -----	E1	312	84	6.4	169.3	5.5	11.7	144.3	410.6	246.9	524.5	133.0	113.6
1382	Oil and gas field exploration services -----	E2	142	8	.8	14.3	.7	1.4	11.8	38.2	16.5	48.7	6.0	18.3
1389	Oil and gas field services, n.e.c. -----	E2	710	104	7.9	175.9	6.3	13.8	136.9	473.9	(D)	586.3	(D)	153.0
14	Nonmetallic minerals, except fuels -----	-	48	19	4.9	144.0	3.5	7.3	96.3	469.6	254.8	564.6	159.9	278.4
145	Clay, ceramic, and refractory minerals -----	-	12	9	.6	12.8	.5	1.1	10.4	46.2	29.7	68.5	7.5	35.9
1452	Bentonite -----	-	12	9	.6	12.8	.5	1.1	10.4	46.2	29.7	68.5	7.5	CC (D)
147	Chemical and fertilizer mineral mining -----	-	8	6	4.0	126.1	2.8	5.8	82.2	410.8	219.1	479.3	150.6	232.1
1474	Potash, soda, and borate minerals -----	-	7	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries and industry groups are withheld to avoid disclosing data for individual companies. However, for such industries and industry groups with 100 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1982

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s. tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures	12	.1	1.2	2.6	(X)
Sand and gravel	9	.1	.8	1.3	942.8

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of estab- lish- ments	Producing establishments										Nonpro- ducing estab- lish- ments	
			Total	Mines only				Mines with preparation plants				Separ- ately operated prepara- tion plants		Undistri- buted ¹
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods			
	ALL MINERAL INDUSTRIES													
	Establishments.....number..	2 101	2 068	740	18	4	718	60	6	49	5	32	1 236	33
	Employees.....1,000.....	34.2	33.9	(D)	.4	.2	(D)	12.0	(D)	6.9	(D)	(D)	(D)	.3
	Value added in mining.....mil. dol..	6 858.8	6 858.8	(D)	19.2	6.5	(D)	1 815.1	(D)	1 278.9	(D)	(D)	(D)	(Z)
10	METAL MINING													
	Establishments.....number..	71	58	14	13	-	1	10	-	5	5	-	34	13
	Employees.....1,000.....	2.7	(D)	(D)	(D)	-	(D)	2.0	-	(D)	(D)	-	.1	(D)
	Value added in mining.....mil. dol..	190.6	(D)	(D)	(D)	-	(D)	171.8	-	(D)	(D)	-	2.4	(D)
101	Iron ores													
	Establishments.....number..	2	1	-	-	-	-	1	-	1	-	-	-	1
	Employees.....1,000.....	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	-	(Z)
	Value added in mining.....mil. dol..	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	-	(Z)
102	Copper ores													
	Establishments.....number..	1	-	-	-	-	-	-	-	-	-	-	-	1
	Employees.....1,000.....	(D)	-	-	-	-	-	-	-	-	-	-	-	(D)
	Value added in mining.....mil. dol..	(D)	-	-	-	-	-	-	-	-	-	-	-	(D)
104	Gold and silver ores													
	Establishments.....number..	2	1	-	-	-	-	-	-	-	-	-	1	1
	Employees.....1,000.....	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	(D)
	Value added in mining.....mil. dol..	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	(D)
106	Ferroalloy ores, except vanadium													
	Establishments.....number..	1	1	-	-	-	-	-	-	-	-	-	1	-
	Employees.....1,000.....	(Z)	(Z)	-	-	-	-	-	-	-	-	-	(Z)	-
	Value added in mining.....mil. dol..	(Z)	(Z)	-	-	-	-	-	-	-	-	-	(Z)	-
108	Metal mining services													
	Establishments.....number..	29	29	-	-	-	-	-	-	-	-	-	29	-
	Employees.....1,000.....	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
	Value added in mining.....mil. dol..	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
109	Miscellaneous metal ores													
	Establishments.....number..	36	26	14	13	-	1	9	-	4	5	-	3	10
	Employees.....1,000.....	(D)	(D)	(D)	(D)	-	(D)	(D)	-	(D)	(D)	-	(D)	(D)
	Value added in mining.....mil. dol..	(D)	(D)	(D)	(D)	-	(D)	(D)	-	(D)	(D)	-	(D)	(D)

See footnotes at end of table.

Table 3. **Selected Statistics by Type of Operation and Industry Group for the State: 1982—**
Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of estab- lish- ments	Producing establishments										Nonpro- ducing estab- lish- ments	
			Total	Mines only				Mines with preparation plants				Seps- arately operated prepara- tion plants		Undistri- buted ¹
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods			
12	BITUMINOUS COAL AND LIGNITE MINING													
	Establishments.....number..	49	47	6	4	1	1	23	1	22	-	1	17	2
	Employees.....1,000..	6.1	(D)	(D)	(D)	(D)	(D)	5.3	(D)	(D)	-	(D)	(D)	(D)
	Value added in mining.....mil. dol..	1 285.3	(D)	(D)	(D)	(D)	(D)	1 184.8	(D)	(D)	-	(D)	(D)	(D)
121	Bituminous coal and lignite mining													
	Establishments.....number..	49	47	6	4	1	1	23	1	22	-	1	17	2
	Employees.....1,000..	6.1	(D)	(D)	(D)	(D)	(D)	5.3	(D)	(D)	-	(D)	(D)	(D)
	Value added in mining.....mil. dol..	1 285.3	(D)	(D)	(D)	(D)	(D)	1 184.8	(D)	(D)	-	(D)	(D)	(D)
13	OIL AND GAS EXTRACTION													
	Establishments.....number..	1 933	1 915	716	-	-	716	-	-	-	-	30	1 169	18
	Employees.....1,000..	20.4	20.4	(D)	-	-	(D)	-	-	-	-	(D)	15.4	(Z)
	Value added in mining.....mil. dol..	4 913.2	4 913.0	3 759.7	-	-	3 759.7	-	-	-	-	230.6	922.7	.2
131	Crude petroleum and natural gas													
	Establishments.....number..	738	720	716	-	-	716	-	-	-	-	-	4	18
	Employees.....1,000..	5.0	4.9	(D)	-	-	(D)	-	-	-	-	-	(D)	(Z)
	Value added in mining.....mil. dol..	3 759.9	3 759.7	3 759.7	-	-	3 759.7	-	-	-	-	-	-	.2
132	Natural gas liquids													
	Establishments.....number..	31	31	-	-	-	-	-	-	-	-	30	1	-
	Employees.....1,000..	.4	.4	-	-	-	-	-	-	-	-	(D)	(D)	-
	Value added in mining.....mil. dol..	230.6	230.6	-	-	-	-	-	-	-	-	230.6	-	-
138	Oil and gas field services													
	Establishments.....number..	1 164	1 164	-	-	-	-	-	-	-	-	-	1 164	-
	Employees.....1,000..	15.0	15.0	-	-	-	-	-	-	-	-	-	15.0	-
	Value added in mining.....mil. dol..	922.7	922.7	-	-	-	-	-	-	-	-	-	922.7	-
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments.....number..	48	48	4	1	3	-	27	5	22	-	1	16	-
	Employees.....1,000..	4.9	4.9	(D)	(D)	(D)	-	4.6	(D)	(D)	-	(Z)	(D)	-
	Value added in mining.....mil. dol..	469.6	469.6	(D)	(D)	(D)	-	458.5	(D)	(D)	-	(Z)	(D)	-
142	Crushed and broken stone, Including riprap													
	Establishments.....number..	5	5	-	-	-	-	5	-	5	-	-	-	-
	Employees.....1,000..	.1	.1	-	-	-	-	.1	-	.1	-	-	-	-
	Value added in mining.....mil. dol..	5.4	5.4	-	-	-	-	5.4	-	5.4	-	-	-	-
144	Sand and gravel													
	Establishments.....number..	8	8	-	-	-	-	2	-	2	-	-	6	-
	Employees.....1,000..	(Z)	(Z)	-	-	-	-	(D)	-	(D)	-	-	(D)	-
	Value added in mining.....mil. dol..	3.5	3.5	-	-	-	-	(D)	-	(D)	-	-	(D)	-
145	Clay, ceramic, and refractory minerals													
	Establishments.....number..	12	12	2	-	2	-	10	-	10	-	-	-	-
	Employees.....1,000..	.6	.6	(D)	-	(D)	-	(D)	-	(D)	-	-	-	-
	Value added in mining.....mil. dol..	46.2	46.2	(D)	-	(D)	-	(D)	-	(D)	-	-	-	-

See footnotes at end of table.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1982—
Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Industry group and item	All types of estab- lish- ments	Producing establishments										Nonpro- ducing estab- lish- ments	
			Total	Mines only				Mines with preparation plants				Sepsa- rately operated prepara- tion plants		Undistri- buted¹
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods			
14	NONMETALLIC MINERALS, EXCEPT FUELS—Con.													
147	Chemical and fertilizer mineral mining													
	Establishments.....number...	8	8	1	1	-	-	6	5	1	-	1	-	-
	Employees.....1,000.....	4.0	4.0	(D)	(D)	-	-	(D)	(D)	(D)	-	(Z)	-	-
	Value added in mining mil. dol...	410.8	410.8	(D)	(D)	-	-	(D)	(D)	(D)	-	(Z)	-	-
148	Nonmetallic minerals services													
	Establishments.....number...	9	9	-	-	-	-	-	-	-	-	-	9	-
	Employees.....1,000.....	(Z)	(Z)	-	-	-	-	-	-	-	-	-	(Z)	-
	Value added in mining mil. dol...	1.8	1.8	-	-	-	-	-	-	-	-	-	1.8	-
149	Miscellaneous nonmetallic minerals													
	Establishments.....number...	6	6	1	-	1	-	4	-	4	-	-	1	-
	Employees.....1,000.....	(Z)	(Z)	(D)	-	(D)	-	(D)	-	(D)	-	-	(Z)	-
	Value added in mining mil. dol...	1.9	1.9	(D)	-	(D)	-	(D)	-	(D)	-	-	-	-

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4a. Summary Statistics for the State: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Item	1982	Item	1982
Establishments during year.....number.....	2 101	Cost of supplies.....mil. dol.....	3 946.7
With 0 to 19 employees.....do.....	1 778	Supplies used, minerals received, and purchased machinery installed.....do.....	2 263.9
With 20 to 99 employees.....do.....	259	Resales.....do.....	19.7
With 100 employees or more.....do.....	64	Purchased fuels consumed.....do.....	226.7
All employees:		Purchased electric energy:	
Average for year.....1,000.....	34.2	Quantity.....mil. kWh.....	3 316.0
Payroll for year.....mil. dol.....	939.6	Cost.....mil. dol.....	116.9
Production, development, and exploration workers:		Electric energy generated less sold.....mil. kWh.....	326.5
Average for year.....1,000.....	26.0	Contract work.....mil. dol.....	1 319.5
March.....do.....	27.6	Cost of purchased communication services.....do.....	8.5
May.....do.....	26.4	Value of shipments and receipts.....do.....	8 606.9
August.....do.....	25.2	Value of resales.....do.....	19.3
November.....do.....	24.5	Capital expenditures during year (except land and mineral rights).....do.....	2 198.7
Hours.....millions.....	54.3	New capital expenditures during year.....do.....	1 090.0
January to March.....do.....	14.6	Buildings and other structures, except land.....do.....	164.6
April to June.....do.....	13.8	Machinery and equipment.....do.....	925.4
July to September.....do.....	13.0	Used capital expenditures during year.....do.....	55.9
October to December.....do.....	12.7	Buildings and other structures, except land.....do.....	1.3
Wages.....mil. dol.....	690.4	Machinery and equipment.....do.....	54.6
Supplemental labor costs not included in payroll.....do.....	207.4	Mineral exploration and development ¹do.....	1 052.7
Legally required expenditures, including Social Security contributions.....do.....	81.3	Rental payments during year.....do.....	86.0
Payments for voluntary programs.....do.....	126.0	Buildings and other structures, except land.....do.....	7.6
Value added by mining.....do.....	6 858.8	Machinery and equipment.....do.....	78.4
		Expensed mineral exploration, development, land, and rights ²do.....	929.8

¹Excludes data for mining service industries and natural gas liquids industry where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industry where data were not collected.

Table 4b. Inventories for the State: End of 1981 and 1982

[Million dollars. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Item	End of 1981	End of 1982
Total inventories ¹	574.4	571.0
Detail by method of valuation:		
Subject to LIFO costing ²	58.6	71.4
LIFO reserve	15.1	18.8
LIFO value	43.5	54.8
Not subject to LIFO costing	407.1	383.0
Valuation method not reported ³	108.7	116.5
Amount subject to LIFO reported without associated reserve and value ⁴	(Z)	(Z)

¹Beginning in the 1982 economic censuses, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

²Only includes data reported by respondents who (a) indicated amount of inventories subject to LIFO cost, and (b) provided sufficient information to determine associated LIFO reserve and value figures.

³Includes data estimated for nonresponse and nonmail administrative records and data reported by respondents who provided total inventory figures without other information.

⁴Includes data reported by respondents who indicated their inventories were subject to LIFO cost but did not provide associated LIFO reserve and value figures.

Table 5. Industry Group Statistics for Counties: 1982 and 1977

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group ¹	1982											1977		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees (1,000)	Value added by mining (million dollars)	
		E ²	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	Wyoming	-	2 101	323	34.2	939.6	26.0	54.3	690.4	8 858.8	3 946.7	8 606.9	2 198.7	22.7	2 282.0
	Albany County	E2	16	2	.1	2.7	.1	.2	2.0	11.2	3.9	13.2	1.9	(NA)	(NA)
13	Oil and gas extraction	E2	14	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services	E3	9	2	.1	2.3	.1	.1	1.7	7.4	(D)	8.5	(D)	(NA)	(NA)
	Big Horn County	-	53	7	.5	11.9	.4	.8	8.9	148.5	60.0	172.5	36.0	.7	87.7
13	Oil and gas extraction	-	48	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas	-	26	2	.1	2.8	(Z)	.1	1.3	123.1	43.8	135.5	31.5	.1	44.4
138	Oil and gas field services	E1	22	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels	-	3	3	.3	6.0	.2	.5	4.8	17.9	10.8	26.5	2.2	(NA)	(NA)
145	Clay, ceramic, and refractory minerals	-	3	3	.3	6.0	.2	.5	4.8	17.9	10.8	26.5	2.2	(NA)	(NA)
	Campbell County	E1	319	52	5.8	175.8	4.5	9.3	131.2	1 528.8	562.4	1 705.2	385.8	2.3	385.2
12	Bituminous coal and lignite mining	-	17	13	2.6	92.6	1.8	3.5	64.3	793.6	161.0	795.3	159.2	(NA)	(NA)
121	Bituminous coal and lignite mining	-	17	13	2.6	92.6	1.8	3.5	64.3	793.6	161.0	795.3	159.2	(NA)	(NA)
13	Oil and gas extraction	E3	299	39	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas	E3	143	8	.7	19.8	.5	1.0	12.9	561.2	310.4	683.4	188.2	.2	223.8
132	Natural gas liquids	E1	5	1	.1	1.7	.1	.1	1.3	11.5	(D)	21.7	(D)	(NA)	(NA)
138	Oil and gas field services	E2	151	30	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	44.2
	Carbon County	E1	100	15	2.1	85.5	1.6	3.1	48.2	532.5	464.2	958.0	38.7	2.3	199.9
10	Metal mining	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
109	Miscellaneous metal ores	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
12	Bituminous coal and lignite mining	E4	11	7	1.1	34.5	.8	1.5	24.8	142.3	(D)	234.4	(D)	1.1	132.2
121	Bituminous coal and lignite mining	E4	11	7	1.1	34.5	.8	1.5	24.8	142.3	(D)	234.4	(D)	1.1	132.2
13	Oil and gas extraction	-	82	5	.4	9.6	.3	.5	7.1	290.4	340.1	598.2	32.2	(NA)	(NA)
131	Crude petroleum and natural gas	-	32	2	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	13.9
132	Natural gas liquids	-	2	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services	E1	48	3	.3	6.6	.2	.4	5.3	16.7	8.9	19.5	6.1	.3	7.9
	Converse County	-	137	21	1.8	50.1	1.3	2.9	38.1	432.6	220.9	547.2	106.3	1.2	141.1
10	Metal mining	-	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
109	Miscellaneous metal ores	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
12	Bituminous coal and lignite mining	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction	E1	126	17	1.1	30.5	.9	2.0	24.2	382.8	(D)	480.6	(D)	.4	104.0
131	Crude petroleum and natural gas	-	53	4	.3	8.7	.2	.4	6.3	313.8	117.4	347.4	83.8	.1	89.1

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group ¹	1982											1977	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)
		E ²	Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
	Wyoming—Con.													
	Converse County—Con.													
13	Oil and gas extraction—Con.													
132	Natural gas liquids	-	5	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services	E4	68	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Crook County	-	67	3	.3	8.5	.3	.6	6.5	62.0	30.9	79.8	13.1	22.2
13	Oil and gas extraction	-	62	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas	-	31	-	.1	2.0	(Z)	.1	1.3	44.1	19.8	55.6	8.3	18.1
138	Oil and gas field services	E1	31	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels	E1	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
145	Clay, ceramic, and refractory minerals	E1	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Fremont County	-	162	30	3.1	83.6	2.5	5.3	66.4	469.5	334.4	647.4	156.5	194.3
10	Metal mining	-	20	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	95.9
101	Iron ores	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
109	Miscellaneous metal ores	E1	11	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction	-	138	22	1.7	49.4	1.4	3.2	40.9	404.4	271.5	528.2	147.6	(NA)
131	Crude petroleum and natural gas	-	43	5	.3	9.7	.2	.5	7.8	290.5	195.8	365.5	120.8	61.4
132	Natural gas liquids	-	3	2	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services	E1	92	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	16.1
	Hot Springs County	-	54	5	.4	10.5	.3	.7	8.3	112.7	35.6	126.1	22.3	65.9
13	Oil and gas extraction	-	51	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas	-	20	3	.2	6.5	.2	.4	5.1	101.6	29.4	111.6	19.4	63.8
138	Oil and gas field services	E2	31	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Johnson County	-	60	6	.4	10.0	.3	.5	7.1	83.9	42.9	102.2	24.6	28.6
13	Oil and gas extraction	-	53	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas	-	25	2	.1	3.9	.1	.2	3.2	75.7	35.2	89.8	21.1	25.1
138	Oil and gas field services	E1	28	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	3.0
	Laramie County	E3	28	1	.1	1.7	.1	.1	1.2	11.9	5.5	9.8	7.5	14.3
13	Oil and gas extraction	E3	26	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	11.4
131	Crude petroleum and natural gas	E4	13	-	(Z)	.3	(Z)	(Z)	.2	8.8	3.9	6.1	6.6	7.2
	Lincoln County	-	75	15	1.3	39.8	1.0	2.0	30.1	219.9	133.9	262.7	91.1	76.1
12	Bituminous coal and lignite mining	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	45.1
121	Bituminous coal and lignite mining	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	45.1
13	Oil and gas extraction	-	70	10	.6	15.8	.4	.9	12.9	138.0	80.6	132.1	86.5	(NA)
131	Crude petroleum and natural gas	-	25	-	(Z)	1.1	(Z)	.1	1.0	101.7	64.2	86.5	79.5	14.2
138	Oil and gas field services	-	45	10	.5	14.7	.4	.9	11.9	36.3	16.4	45.6	7.0	(NA)
	Natrona County	E3	297	57	5.3	119.2	3.7	8.0	77.4	482.4	296.6	654.9	124.0	165.8
10	Metal mining	E3	23	5	.3	6.3	.2	.5	5.5	4.2	3.5	6.1	1.5	18.9
109	Miscellaneous metal ores	E2	14	5	.2	6.0	.2	.5	5.3	3.5	(D)	5.3	(D)	(NA)
13	Oil and gas extraction	E3	264	50	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.0	141.4
131	Crude petroleum and natural gas	E2	83	12	1.5	44.5	.6	1.2	18.0	282.8	142.7	348.1	77.3	(NA)
132	Natural gas liquids	-	3	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services	E5	178	38	3.4	65.5	2.8	6.1	51.8	173.4	93.8	223.2	44.0	75.2
14	Nonmetallic minerals, except fuels	E1	9	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
145	Clay, ceramic, and refractory minerals	-	2	2	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Niobrara County	-	62	2	.2	4.9	.2	.3	3.8	41.3	14.6	40.0	15.8	6.8
13	Oil and gas extraction	-	61	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	6.8
131	Crude petroleum and natural gas	-	25	-	.1	1.7	(Z)	.1	1.1	33.9	8.8	28.7	13.9	(NA)
138	Oil and gas field services	-	35	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

SIC code	Geographic area and industry group ¹	1982											1977		
		E ²	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)
			Total (number)	With 20 employees or more (number)	Number ³ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
13	Wyoming—Con. Park County -----	-	102	14	1.2	35.2	.9	2.0	26.2	592.9	(D)	728.5	(D)	1.0	192.1
	Oil and gas extraction -----	-	101	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas -----	-	35	4	.6	19.6	.4	.9	13.6	547.3	217.1	668.2	96.2	.3	165.1
132	Natural gas liquids -----	-	3	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	E3	63	9	.5	13.9	.4	1.0	11.0	34.1	14.2	43.5	4.8	.7	23.7
	Platte County -----	-	9	4	.1	3.6	.1	.3	2.6	8.7	(D)	9.4	(D)	.3	7.5
	Sheridan County -----	-	43	4	.5	12.4	.4	.8	8.6	73.8	28.4	94.3	7.9	(NA)	(NA)
12	Bituminous coal and lignite mining -----	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining -----	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction -----	E1	36	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas -----	-	10	1	.1	1.6	(Z)	.1	1.1	13.5	6.5	15.3	4.8	(NA)	(NA)
138	Oil and gas field services -----	E2	26	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Sublette County -----	-	50	7	.5	14.9	.4	.9	12.3	140.8	87.6	171.0	57.4	.2	65.1
13	Oil and gas extraction -----	-	50	7	.5	14.9	.4	.9	12.3	140.8	87.6	171.0	57.4	.2	65.1
131	Crude petroleum and natural gas -----	-	27	1	.1	6.2	.1	.3	5.1	119.7	75.4	143.2	51.9	.1	60.1
138	Oil and gas field services -----	-	23	6	.3	8.7	.3	.6	7.2	21.1	12.2	27.8	5.5	(NA)	(NA)
	Sweetwater County -----	-	166	34	6.8	199.0	5.1	10.3	138.9	1 203.6	561.4	1 500.6	264.4	5.2	496.2
12	Bituminous coal and lignite mining -----	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
121	Bituminous coal and lignite mining -----	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction -----	-	154	27	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas -----	-	48	4	.3	9.4	.2	.5	6.3	506.6	153.5	577.7	82.4	.3	182.2
132	Natural gas liquids -----	-	4	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	E2	102	22	1.4	30.5	1.1	2.3	23.7	79.9	40.0	100.2	19.7	(NA)	(NA)
14	Nonmetallic minerals, except fuels -----	-	9	5	4.0	125.7	2.8	5.8	81.9	411.5	215.3	476.2	150.6	3.6	227.6
147	Chemical and fertilizer mineral mining -----	-	6	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.6	225.6
	Teton County -----	-	19	4	.1	3.2	.1	.2	2.8	13.0	(D)	9.2	(D)	(NA)	(NA)
13	Oil and gas extraction -----	-	19	4	.1	3.2	.1	.2	2.8	13.0	(D)	9.2	(D)	(NA)	(NA)
138	Oil and gas field services -----	-	14	4	.1	3.2	.1	.2	2.8	8.0	(D)	9.2	(D)	(NA)	(NA)
	Uinta County -----	-	125	27	2.2	56.1	1.8	3.6	44.2	495.3	701.5	511.1	685.7	.3	23.9
13	Oil and gas extraction -----	-	121	27	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas -----	-	23	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
132	Natural gas liquids -----	-	3	1	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	E1	95	25	2.0	49.8	1.6	3.3	39.7	126.8	63.3	162.4	27.7	(NA)	(NA)
	Washakie County -----	E1	56	3	.3	6.0	.2	.4	4.5	62.4	32.3	80.6	14.1	.3	31.4
13	Oil and gas extraction -----	E1	54	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas -----	-	24	-	.1	1.8	(Z)	.1	.9	47.8	23.7	59.4	12.1	.1	19.5
132	Natural gas liquids -----	-	1	-	ZZ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	E2	29	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Weston County -----	-	92	10	.9	24.2	.8	1.8	20.3	127.5	81.7	178.6	30.6	.4	28.5
13	Oil and gas extraction -----	-	90	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
131	Crude petroleum and natural gas -----	-	40	3	.2	5.5	.1	.4	3.9	76.5	54.1	110.3	20.3	(NA)	(NA)
138	Oil and gas field services -----	-	49	5	.6	16.4	.5	1.2	14.6	35.5	19.0	46.7	7.9	.3	12.8
14	Nonmetallic minerals, except fuels -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
145	Clay, ceramic, and refractory minerals -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

¹County data shown in this table are limited to counties or industry groups with a value of shipments and receipts greater than \$5 million.²Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.³Some statistics for counties or industry groups with a value of shipments and receipts greater than \$5 million are withheld to avoid disclosing data for individual companies. However, for such counties and industry groups, number of establishments is shown and employment size range is indicated by one of the following symbols: ZZ—less than 100 employees; AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 6. Number of Mineral Establishments in Major Groups by Employment Size Class for Counties: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix A]

Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment size class	All mineral industries	Metal mining (SIC 10)	Anthracite mining (SIC 11)	Bituminous coal and lignite mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Wyoming	2 101	71	-	49	1 933	48	Wyoming—Con.						
0 to 4 employees	1 237	40	-	13	1 170	14	Laramie County—Con.						
5 to 9 employees	300	7	-	3	281	9	20 to 99 employees	1	-	-	-	-	1
10 to 19 employees	241	5	-	3	227	6	Lincoln County	75	-	-	4	70	1
20 to 49 employees	198	8	-	3	179	8	0 to 19 employees	60	-	-	-	60	-
50 to 99 employees	61	2	-	8	47	4	20 to 99 employees	12	-	-	1	10	1
100 to 249 employees	43	7	-	11	23	2	100 to 249 employees	2	-	-	2	-	-
250 to 499 employees	14	2	-	5	6	1	250 employees or more	1	-	-	1	-	-
500 to 999 employees	5	-	-	3	-	2	Natrona County	297	23	-	1	264	9
1,000 to 2,499 employees	2	-	-	-	-	-	0 to 19 employees	240	18	-	1	214	7
Albany County	16	1	-	-	14	1	20 to 99 employees	45	5	-	-	38	2
0 to 19 employees	14	1	-	-	12	1	100 to 249 employees	8	-	-	-	8	-
20 to 99 employees	2	-	-	-	2	-	250 employees or more	4	-	-	-	4	-
Big Horn County	53	2	-	-	48	3	Niobrara County	62	1	-	-	61	-
0 to 19 employees	46	2	-	-	44	1	0 to 19 employees	60	1	-	-	59	-
20 to 99 employees	5	-	-	-	4	1	20 to 99 employees	2	-	-	-	2	-
100 to 249 employees	2	-	-	-	-	2	Park County	102	-	-	-	101	1
Campbell County	319	1	-	17	299	2	0 to 19 employees	88	-	-	-	87	1
0 to 19 employees	267	1	-	4	260	2	20 to 99 employees	11	-	-	-	11	-
20 to 99 employees	40	-	-	5	35	-	100 to 249 employees	3	-	-	-	3	-
100 to 249 employees	7	-	-	4	3	-	Platte County	9	2	-	-	5	2
250 employees or more	5	-	-	4	1	-	0 to 19 employees	5	1	-	-	4	-
Carbon County	100	5	-	11	82	2	20 to 99 employees	4	1	-	-	1	2
0 to 19 employees	85	2	-	4	77	2	Sheridan County	43	1	-	5	36	1
20 to 99 employees	8	-	-	3	5	-	0 to 19 employees	39	1	-	3	34	1
100 to 249 employees	5	2	-	3	-	-	20 to 99 employees	3	-	-	1	2	-
250 employees or more	2	1	-	1	-	-	100 to 249 employees	1	-	-	1	-	-
Converse County	137	7	-	1	126	3	Sublette County	50	-	-	-	50	-
0 to 19 employees	116	5	-	-	109	2	0 to 19 employees	43	-	-	-	43	-
20 to 99 employees	18	-	-	-	17	1	20 to 99 employees	7	-	-	-	7	-
100 to 249 employees	3	2	-	1	-	-	Sweetwater County	166	1	-	2	154	9
Crook County	67	2	-	-	62	3	0 to 19 employees	132	1	-	-	127	4
0 to 19 employees	64	2	-	-	61	1	20 to 99 employees	24	-	-	-	24	-
20 to 99 employees	3	-	-	-	1	2	100 to 249 employees	3	-	-	-	3	-
Fremont County	162	20	-	2	138	2	250 employees or more	7	-	-	2	-	5
0 to 19 employees	132	13	-	1	116	2	Teton County	19	-	-	-	19	-
20 to 99 employees	22	3	-	1	18	-	0 to 19 employees	15	-	-	-	15	-
100 to 249 employees	7	3	-	-	4	-	20 to 99 employees	4	-	-	-	4	-
250 employees or more	1	1	-	-	-	-	Uinta County	125	-	-	2	121	2
Goshen County	9	-	-	-	9	-	0 to 19 employees	98	-	-	2	94	2
0 to 19 employees	9	-	-	-	9	-	20 to 99 employees	25	-	-	-	25	-
Hot Springs County	54	-	-	2	51	1	100 to 249 employees	1	-	-	-	1	-
0 to 19 employees	49	-	-	2	46	1	250 employees or more	1	-	-	-	1	-
20 to 99 employees	5	-	-	-	5	-	Washakie County	56	-	-	-	54	2
Johnson County	60	5	-	2	53	-	0 to 19 employees	53	-	-	-	51	2
0 to 19 employees	54	4	-	2	48	-	20 to 99 employees	3	-	-	-	3	-
20 to 99 employees	6	1	-	-	5	-	Weston County	92	-	-	-	90	2
Laramie County	28	-	-	-	26	2	0 to 19 employees	82	-	-	-	82	-
0 to 19 employees	27	-	-	-	26	1	20 to 99 employees	9	-	-	-	7	2
							100 to 249 employees	1	-	-	-	1	-

APPENDIX A.

Explanation of Terms

Employment and related items—The report forms requested separate information on production, development, and exploration workers as of a payroll period for each quarter of the year and for other employees as of the payroll period which included the 12th of March.

All employees—This item includes all full-time and part-time employees on the payrolls of mining establishments for any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Also included are employees working for miners paid on a per ton, car, or yard basis. Excluded are employees at the mine but on the payroll of another employer (such as employees of contractors) and employees at company stores, boarding houses, bunk houses, and recreational centers. Also excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees, but proprietors and partners of unincorporated firms are excluded.

Production, development, and exploration workers—This category includes employees (up through the working supervisor level) engaged in manual work: using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards. Included are exploration work, mine development, storage, shipping, maintenance, repair, janitorial, and guard services, auxiliary production for use at establishments (such as power plant), record keeping, and other services closely associated with these production and development operations at the establishment covered by the report. Gang and straw bosses and supervisors who performed manual labor are included, as are employees paid on either a time- or piece-rate basis. Also included are miners paid on a per ton, car, or yard basis and persons engaged by them and paid out of the total amount received by these miners. In addition, other employees at the establishment but not on its payroll are included if paid directly through its own employees, such as superintendents and supervisors. The payments received by these types of employees are included as part of the establishments payroll. Supervisory employees above the working supervisor level are excluded from this category.

All other employees—Nonproduction personnel at the establishment include those engaged in the following activities: Supervision above the working supervisor level, sales, highway trucking (by employees not entering mines or pits), advertising, credit, collection, clerical and routine office functions, executive, purchasing, financing, legal,

personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities. Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant and who are utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified as production, development, and exploration workers.)

Separately operated auxiliary establishments employees—This item includes employment at separate central administrative offices or auxiliary units of multiestablishment companies and at those offices or units servicing more than one establishment during the payroll period which included March 12. Establishments were classified on the basis of the industry or principal industry served. Employees at an office located at or near the mining establishment are usually included in the mine report.

All employees, average for year—The 1982 census report form requested employment figures for production, development, and exploration workers for four selected pay periods (mid-March, May, August, and November). For all other employees, only a mid-March figure was requested. The annual average is an average of the four monthly figures for production, development, and exploration workers plus the March figure for all other employees. This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods closely approximates, for most industries, the average employment for the year that would be obtained from 12 monthly pay periods.

Payroll—This term includes all forms of compensation such as salaries, wages, commissions, payments received on a ton, car, or yard basis, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of these establishments, if a corporation; it excludes payments to the proprietor or partners, if an unincorporated concern, and payments to members of Armed Forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production and development work but charged to employees and deducted from their wages. As in the case of employment and establishment figures, the annual payrolls of separate auxiliary establishments of multiestablishment companies are included in the totals for individual industries and for States. Respondents were told that in reporting they could follow the definition of payroll used for calculating the Federal withholding tax.

Production, development, and exploration worker hours—This item represents all hours that production, development, and exploration workers worked, both on active days during which there was production or development work and on inactive days when only security guards, inspectors, repairpersons, and other maintenance persons were on duty. It includes all hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the establishment. Included are actual overtime hours, not straight-time equivalent hours. Hours of working proprietors or partners are excluded.

Supplemental Labor Costs—This item represents employer's cost for fringe benefits not included in payrolls.

Legally required expenditures, including social security contributions—This cost includes employer contributions for all programs required under Federal and State legislation, such as Federal Old Age and Survivors' Insurance, unemployment compensation, and worker's compensation. Also included are legally required State temporary disability payments.

Payments for voluntary programs—Included in this cost are payments resulting from union negotiated contracts and all employer payments of insurance premiums on hospital and medical plans, life insurance premiums, and premiums on supplementary accident and sickness insurance. For programs supported by joint employer-employee contributions, only the employer payments are included. Also included are payments or allocations on all pension plans regardless of methods of administration, supplemental unemployment compensation plans, welfare plans, stock purchase plans in which the employer payment is not subject to withholding tax, and deferred profit sharing plans.

Value added by mining—This measure of mining activity is derived by subtracting the cost of supplies used, minerals received for preparation, purchased machinery installed, purchased fuel, purchased electricity, and contract work from the sum of the value of shipments (mining products plus receipts for services rendered) and total capital expenditures. This statistic avoids the duplication in value of shipments and receipts which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure of value added not only in mineral production but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

Cost of supplies used, purchased machinery installed, etc.—Besides supplies used and purchased machinery installed, this cost includes fuels and electric energy used and contract work done by others for each establishment. It includes charges to both the current and capital accounts. It also includes the cost of items used during 1982 whether they were purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels and for electric energy, both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year.

Freight charges and other direct charges incurred by the establishment in acquiring the item are included. Companies whose records did not show actual amounts used were asked to approximate use by adding purchases (or receipts) during the year to opening inventory and subtracting closing inventory. Separate figures were requested for: (1) selected supplies used, minerals received for preparation, and purchased machinery installed; (2) electric energy purchased; (3) purchased fuels used for heat, power, or the generation of electricity; (4) contract work done by others; and (5) products bought and resold in the same condition. Supplies and equipment used in mine development, plant expansion, and capitalized repairs, which are chargeable to fixed assets accounts, are included in this item, as are supplies furnished without charge to contractors for use at the mining operation and supplies sold to employees for use at the establishment. Excluded are such costs as advertising, insurance, telephone, and research and consulting services of other establishments; or such overhead costs as depreciation charges, rent, interest, and royalties.

Value of shipments and receipts—The amounts shown as value of shipments and receipts for each industry are the net selling values, f.o.b. mine or plant after discounts and allowances, excluding freight charges. "Shipments" include all products physically shipped from the establishment during 1982, including material withdrawn from stockpiles and products shipped on consignment, whether or not sold in 1982. For products transferred to other establishments of the same company or prepared on a custom basis, companies were requested to report the estimated value, not merely the cost of producing the items. Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products transferred to other plants of the company at their full economic value, i.e., to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

For all establishments classified in an industry, value of shipments and receipts includes: (1) the value of all "primary" products of the industry, (2) the value of "secondary" products which are primary to other industries, (3) the receipts for contract work done for others, except custom milling, and (4) the value of products purchased and resold without further processing. Receipts for custom milling are not included to avoid duplication with the value of custom milled ores included in an industry's primary and secondary products.

Some duplication exists in industry and industry group totals because of the inclusion of materials transferred from one establishment to another for mineral preparation or resale.

Capital expenditures—This item covers expenditures made during the year for development and exploration of mineral properties, for new construction, and for purchased machinery chargeable to fixed assets accounts of the mineral establishment. They are the type for which depreciation, depletion, or Office of Minerals Exploration accounts are ordinarily maintained. Capital expenditures during 1982 were to be determined as "additions completed during the year plus construction in progress at the end of the year minus construction in progress at the beginning of the year." Reported capital expenditures were to include work done on contract, as well as by the mine forces.

Expenditures for machinery and equipment were to include those made for replacement purposes, as well as those for additions to capacity. Excluded from these expenditures were costs of maintenance and repairs charged as current operating expense and expenditures for land and mineral rights.

Whenever applicable, separate figures were provided for expenditures for development and exploration of mineral property, construction of preparation plants and other construction, new machinery and equipment, used plant, and used equipment acquired from others.

Rental payments—This item consists of rental payments made to other companies for use of such depreciable assets as buildings, other structures, machinery, and equipment. It does not include payments made to the parent company or another subsidiary of the parent company for the use of buildings and equipment owned by the parent company or its subsidiary. The value of such company-owned assets is included in the gross value of depreciable assets.

Current account expenditures—This item includes all expenses for mineral properties, exploration, and development charged to current accounts. This includes all supplies, machinery, equipment, parts, fuels, power, etc., used for development or exploration and charged to current operating expenses. Also included are royalty payments, acquisition costs for mineral land and rights which were not capitalized, and the cost of maintenance and repairs associated with exploration or development activity and charged to current accounts.

Inventories—This item includes inventories of mined or quarried products, and supplies, parts, fuels, etc., at the beginning and end of the year. Beginning in the 1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method. The inventory figures for 1982, therefore, will not be comparable to prior census data because of the change in reporting instructions.



APPENDIX B.

Geographic Divisions and States

NEW ENGLAND STATES

Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont
North and Mid-Atlantic Offshore

MIDDLE ATLANTIC STATES

New Jersey
New York
Pennsylvania

EAST NORTH CENTRAL STATES

Illinois
Indiana
Michigan
Ohio
Wisconsin

WEST NORTH CENTRAL STATES

Iowa
Kansas
Minnesota
Missouri
Nebraska
North Dakota
South Dakota

SOUTH ATLANTIC STATES

Delaware
District of Columbia
Florida
Georgia
Maryland

SOUTH ATLANTIC STATES—Con.

North Carolina
South Carolina
Virginia
West Virginia
South Atlantic Offshore

EAST SOUTH CENTRAL STATES

Alabama
Kentucky
Mississippi
Tennessee

WEST SOUTH CENTRAL STATES

Arkansas
Louisiana
Oklahoma
Texas
Northern Gulf of Mexico Offshore

MOUNTAIN STATES

Arizona
Colorado
Idaho
Montana
Nevada
New Mexico
Utah
Wyoming

PACIFIC STATES

Alaska
California
Hawaii
Oregon
Washington
Pacific Offshore



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PUBLICATION PROGRAM

1982 CENSUS OF MINERAL INDUSTRIES

Publications of the 1982 Census of Mineral Industries, containing data on establishments primarily engaged in the extraction of minerals, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, D.C. 20233.

Preliminary Reports

Preliminary data from the 1982 census have been issued in 12 industry and 2 summary reports covering all of the 42 mineral industries. These reports are superseded by more detailed final reports.

Final Reports

Final detailed statistics are issued in separate paperbound reports.

Industry series—12 reports (MIC82-I-10A to -14E)

Each of the 12 reports provides information for an industry or a group of related industries (e.g., clay, ceramic, and refractory minerals). Final figures for the United States are shown for each of 42 mineral industries on quantity and value of products shipped and supplies used; inventories; quantity and cost of fuels and electric energy purchased, quantity of fuel stocks, and the quantities of fuels produced and consumed; capital expenditures; assets; rents; employment; depreciation, amortization and depletion; payrolls; hours worked; cost of purchased machinery; value added by mining; mineral development and exploration costs; number of establishments; and number of companies. Comparative statistics for earlier years are included. Industry statistics are shown by State, type of operation, and size of establishment.

Geographic area series—9 reports (MIC82-A-1 to -9)

A separate report for each of the nine geographic divisions presents statistics for individual States for two- and three-digit industry groups by type of operation and by county. Also, data are shown for value of shipments, value added by mining, employment, payroll, hours worked, capital expenditures, cost of supplies, etc., purchased machinery

installed, and number of mining establishments, with comparative 1977 data on employment and value added by mining.

Subject series—7 reports (MIC82-S-1 to -7)

Each of the 7 reports contains detailed statistics for an individual subject, such as water use in mineral industries; gross value of depreciable assets, capital expenditures, retirements, depreciation and rental payments; size of establishments; type of operation; fuels and electric energy consumed; type of organization; and a general National-level summary.

Final Report Volume

Final paperbound reports are subsequently assembled and reissued in one clothbound volume.

Microfiche

All published data are also available on microfiche.

Availability of Public Use Computer Tapes

Public-use computer tapes for the census of mineral industries are not included as part of the economic census publication program. Special tabulations can be made available on computer tape on a contract, cost-reimbursable basis. Contact Industry Division, Bureau of the Census, Washington, D.C. 20233 for more information.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, construction industries, manufactures, enterprise statistics, minority-owned businesses, women-owned businesses, and transportation also are issued as part of the 1982 Economic Censuses. A separate series of reports covers the censuses of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Northern Mariana Islands. All published reports and microfiche are sold by the Superintendent of Documents, U.S. Government Printing Office. Appropriate announcements and order forms describing these products are available free of charge from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, D.C. 20233.

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